

JOURNALS FROM WHICH ABSTRACTS ARE MADE.

The following is a list of the principal Journals from which abstracts are made (directly or indirectly) by the Bureau of Chemical Abstracts. Further information regarding any of these Journals may be obtained from the Secretary of the Bureau.

ABBREVIATED TITLE.	JOURNAL.	ABBREVIATED TITLE.	JOURNAL.
Abh. Böhm. Akad.	Abhandlungen der Böhmschen Akademie.	Arch. Eisenhüttenw.	Archiv für das Eisenhüttenwesen.
Acta Bot. Fennica	Acta Botanica Fennica.	Arch. exp. Path.	Archiv für experimentelle Pathologie
Acta Phytochim.	Acta Phytochimica.	Pharm.	Pharmakologie.
Acta Sci. Fennicae	Acta Societatis Scientiarum Fennicae.	Arch. Farm. sperim.	Archivio di Farmacologia sperimentale e Scienze affini.
Agric. Live-stock India	Agriculture and Live-stock in India.	Arch. Int. Med.	Archives of Internal Medicine.
Agric. Res. Inst.,	Agricultural Research Institute, Pusa,	Arch. Ist. Biochim.	Archivio dello Istituto Biochimico
Pusa, Rep. (Bull.)	Reports and Bulletins.	Ital.	Italiano.
Allgem. Oel- Fett-Ztg.	Allgemeine Oel- und Fett-Zeitung.	Arch. Med. Pharm.	Archives de Médecine et de Pharmacie
Allgem. Z. Bierbrau.	Allgemeine Zeitschrift für Bierbrauerei und Malzfabrikation.	milit.	militaire.
Amer. Dyestuff Rep.	American Dyestuff Reporter.	Arch. Mikrobiol.	Archiv für Mikrobiologie.
Amer. J. Bot.	American Journal of Botany.	Arch. Min. Soc. Sci.	Archives de Minéralogie de la Société
Amer. J. Dis. Children	American Journal of Diseases of Children.	Varsovie	des Sciences de Varsovie (Archivum
Amer. J. Pharm.	American Journal of Pharmacy.		Mineralogiczne Towarzystwa Nau-
Amer. J. Physiol.	American Journal of Physiology.		kowego Warszawskiego).
Amer. J. Publ. Health	American Journal of Public Health and the Nation's Health.	Arch. Néerland.	Archives Néerlandaises de sciences
			exactes et naturelles.
Amer. J. Sci.	American Journal of Science.	Arch. Néerland. Phys-	Archives Néerlandaises de Physiologie de
Amer. Min.	American Mineralogist.	iol.	l'Homme et des Animaux.
Amer. Ink Maker	American Ink Maker.	Arch. Pflanzenbau	Archiv für Pflanzenbau.
Amer. Paint J.	American Paint Journal.	Arch. Pharm.	Archiv der Pharmazie.
Amer. Paint. & Var.	American Paint and Varnish Manu-	Arch. Sci. phys. nat.	Archives des Sciences physique et natu-
Manuf. Assoc. Circ.	facturers' Association Circulars.		relles.
Anal. Assoc. Quím.	Anales de la Asociación Química Argen-	Arch. Suikerind. Ned-	Archief voor de Suikerindustrie in Neder-
Argentina	tina.	Indie	landsch-Indië.
Anal. Fis. Quím.	Anales de la Sociedad Española de	Arch. Tierernährung	Archiv für Tierernährung und Tier-
	Física y Química.	u. Tierzucht	zucht.
Anal. Inst. invest.	Anales del Instituto de investigaciones	Arh. Hemiju	Arhiv za Hemiju i Farmaciju.
cient. tecn.	científicas y tecnológicas.	Arkiv Kemi, Min.,	Arkiv für Kemi, Mineralogi och
Analyst	Analyst.	Geol.	Geologi.
Angew. Bot.	Angewandte Botanik.	Astrophys. J.	Astrophysics Journal.
Angew. Chem.	Angewandte Chemie (changed from Z.	Atti R. Accad. Lincei	Atti della Reale Accademia Nazionale
	angew. Chem. in 1932).		dei Lincei.
Anilinokras. Prom.	Anilinokrasotschnaja Promishlennosti.	Atti R. Accad. Sci.	Atti della Reale Accademia delle Scienze
Ann. Acad. Brasil Sci.	Annuaire da Academia Brasileira de	Torino	di Torino.
	Sciencias.	Austral. J. Exp. Biol.	Australian Journal of Experimental
Annalen	Justus Liebig's Annalen der Chemie.		Biology and Medicine.
Ann. agron.	Annales agronomiques.	B.P.	British Patent.
Ann. Appl. Biol.	Annals of Applied Biology.	Ber.	Berichte der Deutschen chemischen
Ann. Bot.	Annals of Botany.		Gesellschaft.
Ann. di Bot.	Annali di Botanica.	Ber. Dent. bot. Ges.	Berichte der Deutschen botanischen
Annali Chim. Appl.	Annali di Chimica Applicata.		Gesellschaft.
Ann. Chim.	Annales de Chimie.	Ber. Ges. Kohlentechn.	Berichte der Gesellschaft für Kohlen-
Ann. Chim. Analyt.	Annales de Chimie Analytique et de		technik.
	Chimie Appliquée.	Ber. Ohara Inst.	Berichte des Ohara Instituts für land-
Ann. Falsif.	Annales des Falsifications.	landw. Forsch.	wirtschaftliche Forschungen.
Ann. Guebbard-	Annales Guébbard-Séverine.	Ber. Sachs. Akad.	Berichte über die Verhandlungen der
Severine		Wiss.	Sächsischen Akademie der Wissen-
Ann. Inst. Anal Phys.	Annales de l'Institut d'Analyse Physico-		schaften zu Leipzig.
Chim.	chimique.	Berlin. Klin. Woch.	Berliner Klinische Wochenschrift.
Ann. Inst Pasteur	Annales de l'Institut Pasteur.	Bied. Zentr.	Biedermann's Zentralblatt.
Ann. Inst. Platine	Annales de l'Institut du Platine et des	Bied. Zentr. (Tierer-	Biedermann's Zentralblatt (Tierer-
	Autres Métaux Précieux.	nähr.)	nahrung).
Aun. Physik	Annalen der Physik.	Biochem. J.	Biochemical Journal.
Ann. Physique	Annales de Physique.	Biochem. Z.	Biochemische Zeitschrift.
Ann. R. Staz. Chim.	Annali della R. Stazione Chimica Agraria	Bol. Acad. Nac. Cien-	Boletín de la Academia Nacional dea
Agrar. Sperim.	Sperimentale di Roma.	cias, Cordoba	Ciencias, Cordoba.
Ann. Soc. Sci.	Annales de la Société Scientifique de	Boll. Chim. farm.	Bollettino Chimico-Farmaceutico.
Bruxelles	Bruxelles.	Boll. Soc. Geol. Ital.	Bollettino della Società Geologica Italiana.
Ann. sci. Univ. Jassy.	Annales scientifiques de l'Université de	Boll. Soc. Med.	Bollettino della Società Medico-Chirurgica,
	Jassy.	Chirurg.	Pavia.
Apoth.-Ztg.	Apotheker-Zeitung.	Boll. Uff. Staz. Sperim.	Bollettino Ufficiale della R. Stazione
Arch. Biol.	Archives de Biologie.	Ind. Essenze	Sperimentale per l'Industria delle
Arb. Gebiet. Physik,	Arbeiten aus dem Gebiete der Physik,		Essenze e dei Derivati dagli Agrumi
Math., Chem.	Mathematik und Chemie.		in Reggio Calabria.

ABBREVIATED TITLE.	JOURNAL.	ABBREVIATED TITLE.	JOURNAL.
Boll. Uff. Staz. Sperim. Ind. Pelli	R. Stazione Sperimentale per l'Industria dello Pelli e delle materie concianti, Bollettino Ufficiale.	Canad. Chem. Met.	Canadian Chemistry and Metallurgy.
Bot. Gaz.	Botanical Gazette.	Canad. J. Res.	Canadian Journal of Research.
Brass. Malt.	Brasserie et Malterie.	Caoutchouc et Gutta-Percha	Le Caoutchouc et le Gutta-Percha.
Brau- u. Malzind.	Brau- u. Malzindustrie.	Cellulosechem.	Cellulosechemie.
Braunkohle	Braunkohle.	Cement	Cement and Cement Manufacture.
Brennstoff-Chem.	Brennstoff-Chemie.	Cereal Chem.	Cereal Chemistry.
Brewers' J.	Brewers' Journal.	Chem. Ago	Chemical Age.
Brit. Guiana Dept. Agric. Bull.	British Guiana Department of Agriculture Bulletin.	Chem. App.	Chemische Apparatur.
Brit. J. Phot.	British Journal of Photography	Chem. Eng. Min. Rev.	Chemical Engineering and Mining Review.
Brit. J. Phys. Med.	British Journal of Physical Medicine.	Chem. Erde	Chemie der Erde.
Brit. Med. J.	British Medical Journal.	Chem. Fabr.	Die Chemische Fabrik.
Brit. Plastics	British Plastics and Moulded Products Trader.	Chem. and Ind.	Chemistry and Industry.
Bul. Chim.	Buletinul Chimie.	Chem. Ind.	Chemische Industrie.
Bul. Chim. Soc. Romane	Buletinul de Chimie pura si aplicata al Societatii Romane de Chimie.	Chem. Listy	Chemické Listy pro Vědu a Průmysl. Organ de la "Česká chemická Společnost pro Vědu a Průmysl."
Bul. Soc. Fiz. Romania	Buletinul Bilunar al Societatii de Fizică din Romania.	Chem. Met. Eng.	Chemical and Metallurgical Engineering.
Bul. Soc. Romane Stiin.	Buletinul Societatii Romane de Stiinte.	Chem. News	Chemical News.
Bull. Acad. Polonaise	Bulletin Internationale de l'Académie Polonaise des Sciences et des Lettres.	Chem. Social. Agric.	Chemisation of Socialistic Agriculture (U.S.S.R.).
Bull. Acad. roy. Belg.	Académie royale de Belgique—Bulletin de la Classe des Sciences.	Chem. Trade J.	Chemical Trade Journal.
Bull. Acad. Sci. U.R.S.S.	Bulletin de l'Académie des Sciences de l'Union des Républiques Soviétiques Socialistes.	Chem. Umschau	Chemische Umschau auf dem Gebiete der Fette, Öle, Wachse, und Harze.
Bull. Acad. Sci. Roumaine	Bulletin de la Section Scientifique de l'Académie Roumaine.	Chem. Weekblad	Chemisch Weekblad.
Bull. Amer. Ceram. Soc.	Bulletin of the American Ceramic Society.	Chem.-Ztg.	Chemiker-Zeitung.
Bull. Assoc. Chim. Suer.	Bulletin de l'Association des Chimistes de Sucrerie et de Distillerie.	Chem. Zentr.	Chemisches Zentralblatt.
Bull. Chem. Soc. Japan	Bulletin of the Chemical Society of Japan.	Chim. et Ind.	Chimie et Industrie.
Bull. Entomol. Res.	Bulletin of Entomological Research.	Chinese J. Physiol.	Chinese Journal of Physiology.
Bull. Forest Exp. Stat. Meguro	Bulletin of the Forest Experiment Station, Meguro, Tokyo.	Coll. Czech. Chem. Comm.	Collection of Czechoslovak Chemical Communications.
Bull. Geol. Survey, U.S.A.	Bulletin of the U.S. Geological Survey.	Collegium	Collegium.
Bull. Imp. Inst.	Bulletin of the Imperial Institute.	Compt. rend.	Comptes rendus hebdomadaires des Séances de l'Académie des Sciences.
Bull. Inst. Min. Mot.	Bulletin of the Institution of Mining and Metallurgy.	Compt. rend. Acad. Sci. U.R.S.S.	Comptes rendus de l'Académie des Sciences de l'U.R.S.S.
Bull. Inst. Phys. Chem. Res., Japan	Bulletin of the Institute of Physical and Chemical Research, Japan (Rikagaku Kenkyujo Iho).	Compt. rend. Soc. Biol.	Comptes rendus hebdomadaires de Séances de la Société de Biologie.
Bull. Inst. Pin	Bulletin de l'Institut du Pin.	Compt. rend. Trav. Lab. Carlsberg	Comptes rendus des Travaux du Laboratoire Carlsberg.
Bull. Johns Hopkins Hosp.	Bulletin of the Johns Hopkins Hospital.	Cornell Univ. Agric. Exp. Sta. Bull.	Cornell University Agricultural Experiment Station Bulletin.
Bull. Math. Phys. Bucarest	Bulletin de Mathématiques et de Physique pure et appliquées de l'Ecole Polytechnique "Roi Carol II" Bucarest.	Current Sci.	Current Science.
Bull. Mat. Grasses	Bulletin des Matières Grasses.	Dansk Tidsskr. Farm.	Dansk Tidsskrift for Farmaci.
Bull. School Mines and Met., Univ. Missouri	Bulletin of the School of Mines and Metallurgy, University of Missouri.	Delaware Agric. Exp. Sta. Bull.	Delaware Agricultural Experiment Station Bulletin.
Bull. Sci. Pharmacol.	Bulletin des Sciences Pharmacologiques.	Dept. Chem. S. Australia, Bull.	Department of Chemistry, South Australia, Bulletins.
Bull. Sericult., Japan	Bulletin of Sericulture and Silk Industry, Japan.	Deut. med. Woch. Ecology	Deutsche medizinische Wochenschrift, Ecology.
Bull. Soc. chim.	Bulletin de la Société chimique de France.	Econ. Geol.	Economic Geology.
Bull. Soc. chim. Belg.	Bulletin de la Société chimique de Belgique.	Econ. Proc. Roy. Dubl. Soc.	Economic Proceedings of the Royal Dublin Society.
Bull. Soc. Chim. biol.	Bulletin de la Société de Chimie biologique.	Empire J. Exp. Agric.	Empire Journal of Experimental Agriculture.
Bull. Soc. Chim. Yougoslav.	Bulletin de la Société Chimique du Royaume de Yougoslavie.	Engineering	Engineering.
Bull. Soc. d'Encour.	Bulletin de la Société d'Encouragement pour l'Industrie Nationale.	Eng. and Min. J.	Engineering and Mining Journal.
Bull. Soc. Franç. Phot.	Bulletin de la Société Française de Photographie.	Eng. News-Rec.	Engineering News-Record.
Bull. Soc. Ind. Mulhouse	Bulletin de la Société Industrielle de Mulhouse.	Ernähr. Pflanze	Ernährung der Pflanze.
Bur. Stand. J. Res.	Bureau of Standards Journal of Research.	F.P.	French Patent.
Canada Dept. Mines Publ.	Canada Department of Mines Publications.	Facts about Sugar	Facts about Sugar.
		Farbe u. Lack	Farbe und Lack.
		Farben-Chem.	Farben-Chemiker.
		Farben-Ztg.	Farben-Zeitung.
		Fermentforsch.	Fermentforschung.
		Feuerfest	Feuerfest.
		Feuerungstechnik	Feuerungstechnik.
		Finska Kem. Medd.	Finska Kemistisamfundets Meddelanden (Suomen Kemistiseuran Tiedonantoja).
		Florida Agric. Exp. Sta. Bull.	Florida Agricultural Experiment Station Bulletin.
		Food	Food.
		Food Manuf.	Food Manufacture.
		Fruit Prod. J.	Fruit Products Journal.
		Fuel	Fuel in Science and Practice.
		Fuel Econ.	Fuel Economist.
		Fuel Econ. Rev.	Fuel Economy Review.
		G.P.	German Patent.

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Gas J.	Gas Journal.	J. Coll. Agric. Tokyo .	Journal of the College of Agriculture, Imperial University of Tokyo, Japan.
Gas- u. Wasserfach .	Gas- und Wasserfach.	J. Coll. Eng. Tokyo .	Journal of the College of Engineering, Imperial University of Tokyo.
Gas World	Gas World.	J. Coll. Sci. Tokyo .	Journal of the College of Science, Imperial University of Tokyo.
Gazzotta .	Gazzetta chimica italiana.	J. Counc. Sci. Ind. Res. Australia	Journal of the Council of Scientific and Industrial Research of Australia.
Geol. Mag.	Geological Magazine.	J. Dairy Res. .	Journal of Dairy Research.
Georgia Agric. Exp. Sta. Bull.	Georgia Agricultural Experiment Station Bulletin.	J. Dairy Sci.	Journal of Dairy Science.
Giorn. Chim. Ind. Appl. .	Giornale di Chimica Industriale ed Applicata.	J. Econ. Entomol.	Journal of Economic Entomology.
Gummi-Ztg. .	Gummi-Zeitung.	J. Egypt. Med. Assoc.	Journal of the Egyptian Medical Association.
Hawaii Agric. Exp. Stat. Bull.	Hawaii Agricultural Experiment Station Bulletins.	J. Exp. Med. .	Journal of Experimental Medicine.
Helv. Chim. Acta	Helvetica Chimica Acta.	J. Franklin Inst.	Journal of the Franklin Institute.
Hilgardia	Hilgardia.	J. Fuel Soc. Japan .	Journal of the Fuel Society of Japan.
Imp. Bur. Soil Sci. Tech. Comm.	Imperial Bureau of Soil Science, Technical Communication.	J. Gen. Chem. Russ. .	Journal of General Chemistry, Russia (formerly J. Russ. Phys. Chem. Soc.).
Indian J. Agric. Sci. .	Indian Journal of Agricultural Science.	J. Gen. Physiol.	Journal of General Physiology.
Indian J. Med. Res. .	Indian Journal of Medical Research.	J. Geol. .	Journal of Geology.
Indian Lac Res. Inst. Bull.	Indian Lac Research Institute Bulletin.	J. Geol. Soc. Tokyo .	Chishitsugaku Zasshi (Journal of the Geological Society of Tokyo).
India-rubber J.	India-rubber Journal.	J. Hygiene	Journal of Hygiene.
Ind. Chem.	Industrial Chemist.	J. Indian Chem. Soc.	Journal of the Indian Chemical Society.
Ind. Eng. Chem.	Industrial and Engineering Chemistry.	J. Indian Inst. Sci. .	Journal of the Indian Institute of Science.
Int. Rev. Agric.	International Review of Agriculture.	J. Ind. Hyg.	Journal of Industrial Hygiene.
Int. Sugar J. .	International Sugar Journal.	J. Inst. Brew. .	Journal of the Institute of Brewing.
Iron Steel Inst. Carnegie Schol. Mem.	Iron and Steel Institute, Carnegie Scholarship Memoirs.	J. Inst. Fuel .	Journal of the Institute of Fuel.
Izvestia Teplotech. Inst. (Moscow)	Izvestia Teplotechnicheskogo Instituta (Moscow)	J. Inst. Metals .	Journal of the Institute of Metals.
J.C.S.	Journal of the Chemical Society.	J. Inst. Petroleum Tech.	Journal of the Institution of Petroleum Technologists.
Jahrb. geol. Reichsanst.	Jahrbuch der geologischen Reichsanstalt.	J. Iron and Steel Inst.	Journal of the Iron and Steel Institute.
Jahrb. Min.	Neuca Jahrbuch für Mineralogie, Geologie und Paläontologie.	J. Jap. Ceram. Assoc.	Journal of the Japanese Ceramic Association.
Jahrb. Min. Beil.-Bd.	Nones Jahrbuch für Mineralogie, Geologie und Paläontologie, Beilage-Band.	J. Landw.	Journal für Landwirtschaft.
Jahrb. Radioaktiv. .	Jahrbuch der Radioaktivität und Elektronik.	J. Marine Biol. Assoc.	Journal of the Marine Biological Association of the United Kingdom.
Jahrb. wiss. Bot.	Jahrbuch für wissenschaftliche Botanik.	J. Med. Res.	Journal of Medical Research.
Jahresber. Ges. vaterl. Kultur	Jahresbericht der schlesischen Gesellschaft für vaterländische Kultur.	J. Min. Agric. .	Journal of the Ministry of Agriculture.
Japan. J. Med. Sci. .	Japanese Journal of Medical Sciences.	J. Nutrition	Journal of Nutrition.
Japan. J. Phys.	Japanese Journal of Physics.	J. Oil Col. Chem. Assoc.	Journal of the Oil and Colour Chemists' Association.
Japan Nickel Rev. .	Japan Nickel Review.	J. Opt. Soc. Amer. .	Journal of the Optical Society of America.
Jernk. Ann.	Jernkontorets Annaler.	J. Path. Bact. .	Journal of Pathology and Bacteriology.
J. Agric. Res. .	Journal of Agricultural Research.	J. Pharm. Chim.	Journal de Pharmacie et de Chimie.
J. Agric. Sci. .	Journal of Agricultural Science.	J. Pharm. Exp. Ther.	Journal of Pharmacology and Experimental Therapeutics.
J. Amer. Ceram. Soc.	Journal of the American Ceramic Society.	J. Pharm. Soc. Japan	Journal of the Pharmaceutical Society of Japan. (Yakugakuzasshi.)
J. Amer. Chem. Soc.	Journal of the American Chemical Society.	J. Physical Chem.	Journal of Physical Chemistry.
J. Amer. Leather Chem. Assoc.	Journal of the American Leather Chemists' Association.	J. Physiol.	Journal of Physiology.
J. Amer. Med. Assoc.	Journal of the American Medical Association.	J. Physiol. Path. gén.	Journal de Physiologie et de Pathologie générale.
J. Amer. Pharm. Assoc.	Journal of the American Pharmaceutical Association.	J. Phys. Radium	Journal de Physique et le Radium.
J. Amer. Soc. Agron.	Journal of the American Society of Agronomy.	J. Pomology .	Journal of Pomology and Horticultural Sciences.
J. Annamalai Univ. .	Journal of the Annamalai University.	J. pr. Chem.	Journal für praktische Chemie.
J. Appl. Chem. Russia	Journal of Applied Chemistry, Russia.	J. Proc. Asiatic Soc. Bengal	Journal and Proceedings of the Asiatic Society of Bengal.
J. Assoc. Off. Agric. Chem.	Journal of the Association of Official Agricultural Chemists.	J. Proc. Roy. Soc. New South Wales .	Journal and Proceedings of the Royal Society of New South Wales.
J. Bact. .	Journal of Bacteriology.	J. Res. Assoc. Brit. Rubber Manuf.	Journal of the Research Association of British Rubber Manufacturers.
J. Biochem. Japan .	Journal of Biochemistry, Japan.	J. Rheology	Journal of Rheology.
J. Biol. Chem. .	Journal of Biological Chemistry.	J. Roy. Agric. Soc. .	Journal of the Royal Agricultural Society.
J. Canad. Min. Inst.	Journal of the Canadian Mining Institute.	J. Roy. Hort. Soc. .	Journal of the Royal Horticultural Society.
J. Cell. Comp. Physiol.	Journal of Cellular and Comparative Physiology.	J. Roy. Soc. West Australia	Journal of the Royal Society of West Australia.
J. Cellulose Inst. Tokyo	Cellulose Industry, Journal of the Cellulose Institute, Tokyo.	J. Roy. Tech. Coll. .	Journal of the Royal Technical College (Glasgow).
J. Chem. Ind. Russ. .	Journal of Chemical Industry, Russia.	J. Sci. Hiroshima Univ.	Journal of Science of the Hiroshima University.
J. Chem. Met. Soc. S. Africa	Journal of the Chemical, Metallurgical, and Mining Society of South Africa.	J. Sci. Instr.	Journal of Scientific Instruments.
J. Chem. Physics	Journal of Chemical Physics.	J. Scot. Met. Soc.	Journal of the Scottish Meteorological Society.
J. Chem. Soc. Japan .	Journal of the Chemical Society of Japan. (Nippon Kwagaku Kwai Shi.)	J. Soc. Arts	Journal of the Royal Society of Arts.
J. Chim. phys. .	Journal de Chimie physique.	J.S.C.I. .	Journal of the Society of Chemical Industry.
J. Chinese Chem. Soc.	Journal of the Chinese Chemical Society.		
J. Coll. Agric. Hokkaido	Journal of the College of Agriculture, Hokkaido Imperial University, Japan.		

ABBREVIATED TITLE.	JOURNAL.	ABBREVIATED TITLE.	JOURNAL.
J. Soc. Chem. Ind. Japan	Journal of the Society of Chemical Industry, Japao. (Kōgyō Kwagaku Zasshi.)	Mitt. Kohlenforsch.-inst. Prag	Mitteilungen des Kohlenforschungs-instituts in Prag.
J. Soc. Dyers and Col.	Journal of the Society of Dyers and Colourists.	Mitt. Materialprüf.	Mitteilungen aus dem Materialprüfungs-amt zu Gross-Lichterfelde West.
J. Soc. Glass Tech.	Journal of the Society of Glass Technology.	Mitt. med. Ges. Tokyo	Mitteilungen der medizinischen Gesellschaft zu Tokyo.
J. Soc. Leather Trades' Chom.	Journal of the International Society of Leather Trades' Chemists.	Mitt. Naturforsch. Ges. Halle	Mitteilungen der Naturforschenden Gesellschaft zu Halle.
J. S. African Chem. Inst.	Journal of the South African Chemical Institute.	Mitt. Path. Inst. K. Univ. Japan	Mitteilungen aus dem pathologischen Institut der Kaiserlichen Universität zu Sendai, Japan.
J. State Med.	Journal of State Medicine.	Mitt. Textilforsch. Krefeld	Mitteilungen der Textilforschungsanstalt Krefeld e.V.
J. Textile Inst.	Journal of the Textile Institute.	Monatsh.	Monatshefte für Chemie und verwandte Teile anderer Wissenschaften.
J. Univ. Bombay	Journal of the University of Bombay.	Montana Agric. Exp. Sta. Bull.	Montana Agricultural Experiment Station Bulletin.
J. Usines Gaz	Journal des Usines à Gaz.	Month. J. Inst. Metals	Monthly Journal of the Institute of Metals.
J. Washington Acad. Sci.	Journal of the Washington Academy of Sciences.	Month. Not. Roy. Astr. Soc.	Monthly Notices of the Royal Astronomical Society, London.
J. West Scotland Iron Steel Inst.	Journal of the West of Scotland Iron and Steel Institute.	Mühlentab.	Das Mühlentlaboratorium.
Kali	Kali.	Münch. med. Woch.	Müncheur medizinische Wochenschrift.
Kautschuk	Kautschuk.	Nachr. Ges. Wiss. Göttingen	Nachrichten von der Gesellschaft der Wissenschaften zu Göttingen.
Keijo J. Med.	Keijo Journal of Medicine.	Nat. Paint Var. Assoc. Circ.	National Paint, Varnish, and Lacquer Association Circular.
K. Svenska Vet. Akad. Handl.	Kongliga Svenska Vetenskaps Akademiens Handlingar.	Nature	Nature.
Kentucky Exp. Stat. Bull.	Kentucky Experimental Station, Bulletin.	Natuurwetensch. Tijds.	Natuurwetenschappelijk Tijdschrift.
Keram. Rundsch.	Keramisch Rundschau.	Naturwiss.	Die Naturwissenschaften.
Kolloid-Beih.	Kolloid-Beihefte.	New Hamps. Agric. Exp. Sta. Bull.	New Hampshire Agricultural Experiment Station Bulletin.
Kolloid-Z.	Kolloid-Zeitschrift.	New Jersey Agric. Exp. Sta. Bull.	New Jersey Agricultural Experiment Station Bulletin.
Kunststoffe	Kunststoffe.	New Phytol.	New Phytologist.
Lancet	The Lancet.	New York Agr. Expt. Sta. Bull.	New York Agricultural Experiment Station Bulletins.
Landw. Jahrb.	Landwirtschaftliche Jahrbücher.	New York (Geneva) Agric. Exp. Sta. Bull.	New York (Geneva) Agricultural Experiment Station Bulletin.
Landw. Versuchs-Stat.	Die landwirtschaftlichen Versuchs-Stationen.	New Zealand Dominion Laby. Rept.	New Zealand Dominion Laboratory Reports.
Latvij. Univ. Raksti.	Latvijas Universitātes Raksti, Kimijas Fakultātes Serija.	New Zealand J. Sci. Tech.	New Zealand Journal of Science and Technology.
L'Ind. Chimica	L'Industria Chimica.	Nova Acta Soc. Sci.	Nova Acta Regiae Societatis Scientiarum Upsaliensis.
Louisiana Planter	Louisiana Planter.	Öfvers. Finska Vet.-Soc.	Öfversigt af Finska Vetenskaps-Societätens Förhandlingar, Helsingfors.
Malay. Agric. J.	Malayan Agricultural Journal.	Oesterr. Chem.-Ztg.	Oesterreichische Chemiker-Zeitung.
Mass. Agric. Exp. Sta. Bull.	Massachusetts Agricultural Experiment Station Bulletin.	Ohio Agric. Exp. Sta. Bull.	Ohio Agricultural Experiment Station Bulletin.
Medl. K. Vetenskaps-akad. Nobel-Inst.	Meddelanden från Kongl. Vetenskaps-akademiens Nobel-Institut.	Oil and Soap	Oil and Soap.
Medd. on Grönland	Meddelsor on Grönland.	Oklahoma Agric. Exp. Sta. Bull.	Oklahoma Agricultural Experiment Station Bulletin.
Med. Geneea. Lab. Weltervreden	Mededeelingen uit het Geneeskundig Laboratorium te Weltervreden.	Oversigt Danske Vid. Selsk.	Oversigt over det Kongelige Danske Videnskabsnæstelskabets Forhandlingar.
Med. Doświad.	Medycyna Doświadczalna i Społeczna.	Paint, Oil, and Chem. Rev.	Paint, Oil, and Chemical Review.
Melliand Text. Month.	Melliand Textile Monthly (now Rayon and Melliand Textile Monthly).	Paint and Var. Prod. Man.	Paint and Varnish Production Manager.
Mem. Accad. Lincei	Memorie della Reale Accademia Nazionale dei Lincei.	Paper	Paper.
Mem. Accad. Sci. Torino	Memorie della Reale Accademia delle Scienze di Torino.	Paper-Maker	Paper-Maker and British Paper Trade Journal.
Mem. Coll. Agric. Kyoto	Memoirs of the College of Agriculture, Kyoto Imperial University.	Paper Trade J.	Paper Trade Journal.
Mem. Coll. Sci. Kyoto	Memoirs of the College of Science, Kyoto Imperial University.	Papier-Fabr.	Papier-Fabrikant.
Mem. Dept. Agric. India	Memoirs of the Department of Agriculture in India.	Pedology	Pedology.
Mem. Manchester Phil. Soc.	Memoirs and Proceedings of the Manchester Literary and Philosophical Society.	Paint., Pig., Ver.	Painture, Pigment, Verms.
Mem. Poudres	Mémoires des Poudres.	Perf. & Essent. Oil Rec.	Perfumery and Essential Oil Record.
Mem. Soc. Ing. Civ. France	Mémoires et Compte rendu des Travaux de la Société des Ingénieurs Civils de France.	Petroleum	Petroleum (German).
Metall u. Erz	Metall und Erz.	Pflüger's Archiv	Archiv für die gesamte Physiologie des Menschen und der Tiere.
Metallurgia	Metallurgia.	Pharm. J.	Pharmaceutical Journal.
Met. & Alloys	Metals and Alloys.	Pharm. Weekblad	Pharmaceutisch Weekblad.
Metrop. Water Bd. Rep.	Metropolitan Water Board Reports.	Pharm. Ztg.	Pharmazeutische Zeitung.
Mich. Agric. Exp. Sta. Bull.	Michigan Agricultural Experiment Station Bulletin.	Pharm. Zentr.	Pharmaceutische Zentralhalle.
Milch. Forsch.	Milchwirtschaftliche Forschungen.	Philippine J. Sci.	Philippine Journal of Science.
Milch. Zentr.	Milchwirtschaftliches Zentralblatt.	Phil. Mag.	Philosophical Magazine (The London, Edinburgh, and Dublin).
Min. Mag.	Mineralogical Magazine and Journal of the Mineralogical Society.		
Min. & Mot.	Mining and Metallurgy.		
Missouri Agric. Exp. Sta. Res. Bull.	Missouri Agricultural Experiment Station Research Bulletin.		

ABBREVIATED TITLE.	JOURNAL.	ABBREVIATED TITLE.	JOURNAL.
Phil. Trans.	Philosophical Transactions of the Royal Society of London.	Proc. U.S. Nat. Mus. .	Proceedings of the United States National Museum.
Phot. J. .	Photographic Journal.	Przemysl Chcm.	Przemysl Chemiczny.
Phot. Korr.	Photographische Korrespondenz.	Publ. Fac. Sci.	Publications de la Faculté des Sciences
Physica	Physica.	Univ. Masaryk.	de l'Université Masaryk (Spisy vydávané Přírodovědeckou Facultou Masarykovy University).
Physical Rev.	Physical Review.	Polp and Paper	Pulp and Paper of Canada.
Physikal. Z.	Physikalische Zeitschrift.	Canada.	
Phytopath.	Phytopathology.	Quart. J. Geol. Soc. .	Quarterly Journal of the Geological Society.
Phytopath. Z. .	Phytopathologische Zeitschrift.	Quart. J. Med.	Quarterly Journal of Medicine.
Planta (Z. wisa. Biol.)	Planta (Zeitschrift für wissenschaftliche Biologie).	Quart. J. Pharm.	Quarterly Journal of Pharmacy and Pharmacology.
Plast. Massi	Plastischokic Massi.	Rayon and Melland	Rayon and Melland Textile Monthly.
Proc. Amer. Acad. Arts Sci.	Proceedings of the American Academy of Arts and Sciences.	Rec. Australian Mus.	Records of the Australian Museum.
Proc. Amer. Phil. Soc.	Proceedings of the American Philosophical Society.	Rec. trav. bot. Néerlandais.	Recueil des travaux botaniques Néerlandais.
Proc. Amer. Physiol. Soc.	Proceedings of the American Physiological Society.	Rec. trav. chim.	Recueil des travaux chimiques des Pays-Bas.
Proc. Amer. Soc. Biol. Chem.	Proceedings of the American Society of Biological Chemists.	Rend. Accad. Sci. Fis. Mat. Napoli	Rendiconto dell' Accademia delle Scienze Fisiche e Matematiche, Napoli.
Proc. Amer. Soc. Civ. Eng.	Proceedings of the American Society of Civil Engineers.	Rend. Ist. Lomb. Sci. Lett.	Rendiconti dell' Reale Istituto Lombardo di Scienze e Lettere.
Proc. Amer. Soc. Testing Materials .	Proceedings of the American Society for Testing Materials.	Rep. Aust. Assoc. Sci.	Report of the Australian Association for the Advancement of Science.
Proc. Austral. Inst. Min. Mot.	Proceedings of the Australasian Institute of Mining and Metallurgy.	Rep. Brit. Assoc.	Report of the British Association for the Advancement of Science.
Proc. Camb. Phil. Soc.	Proceedings of the Cambridge Philosophical Society.	Rev. Aluminium	Revue de l'Aluminium.
Proc. Durham Phil. Soc.	Proceedings of the University of Durham Philosophical Society.	Rev. Gén. Mat. Col. .	Revue Générale des Matières Colorantes.
Proc. Eng. Soc. W. Pa.	Proceedings of the Engineers' Society of Western Pennsylvania.	Rev. Mét.	Revue de Métallurgie.
Proc. Imp. Acad. Tokyo	Proceedings of the Imperial Academy (Tokyo).	Rev. Sci. Instr.	Review of Scientific Instruments.
Proc. Inst. Civ. Eng. .	Proceedings of the Institution of Civil Engineers.	Rocz. Chem. .	Roczniki Chemji organ Polskiego Towarzystwa Chemicznego.
Proc. Inst. Mech. Eng.	Proceedings of the Institution of Mechanical Engineers.	Schweiz. Chem.-Ztg. .	Schweizerische Chemiker-Zeitung.
Proc. Internat. Cong. Soil Sci.	Proceedings of the International Congress of Soil Science.	Science	Science.
Proc. Internat. Soc. Soil Sci.	Proceedings of the International Society of Soil Science.	Sci. Agric.	Scientific Agriculture.
Proc. K. Akad. Wetensch. Amsterdam	Koninklijke Akademie van Wetenschappen te Amsterdam. Proceedings (English version).	Sci. Ind. Rep. Roure-Bertrand Fila	Scientific and Industrial Reports of Roure-Bertrand Fila.
Proc. Leningrad Dept. Inst. Fert.	Proceedings of the Leningrad Departmental Institute of Fertilisers.	Sci. Papers Inst. Phys. Chem. Res. Tokyo	Scientific Papers of the Institute of Physical and Chemical Research, Tokyo.
Proc. Muslim Assoc. .	Proceedings of the Muslim Association for the Advancement of Science.	Sci. Proc. Roy. Dublin Soc.	Scientific Proceedings of the Royal Dublin Society.
Proc. Nat. Acad. Sci..	Proceedings of the National Academy of Sciences.	Sci. Rep. Hiroshima Tech. Sch.	Scientific Reports of the Hiroshima Higher Technical School.
Proc. Nova Scotian Inst. Sci.	Proceedings of the Nova Scotian Institute of Science.	Sci. Rep. Tôhoku	Science Reports, Tôhoku Imperial University.
Proc. Phil. Soc. Glasgow	Proceedings of the Glasgow Philosophical Society.	Sci. Rep. Tokyo Bunrika Daigaku.	Science Reports of the Tokyo Bunrika Daigaku.
Proc. Physical Soc. .	Proceedings of the Physical Society of London.	Sci. Rep. Teing Hua Univ. .	Science Reports of the National Teing Hua University.
Proc. Physiol. Soc. .	Proceedings of the Physiological Society.	Sci. Trans. Roy. Dublin Soc.	Scientific Transactions of the Royal Dublin Society.
Proc. Roy. Inst.	Proceedings of the Royal Institution of Great Britain.	Scot. J. Agric. .	Scottish Journal of Agriculture.
Proc. Roy. Irish Acad.	Proceedings of the Royal Irish Academy.	Sewage Works' J.	Sewage Works' Journal.
Proc. Roy. Soc.	Proceedings of the Royal Society.	Sitzungsber. Akad. Wiss. Wien	Sitzungsberichte der Akademie der Wissenschaften, Wien.
Proc. Roy. Soc. Edin.	Proceedings of the Royal Society of Edinburgh.	Sitzungsber. Heidelberg Akad. Wiss.	Sitzungsberichte der Heidelberger Akademie der Wissenschaften.
Proc. Roy. Soc. Med..	Proceedings of the Royal Society of Medicine.	Sitzungsber. Preuss. Akad. Wiss. Berlin	Sitzungsberichte der Preussischen Akademie der Wissenschaften zu Berlin.
Proc. Roy. Soc. Queensland	Proceedings of the Royal Society of Queensland.	Soap	Soap.
Proc. Roy. Soc. Tasmania	Proceedings of the Royal Society of Tasmania.	Soil Sci. .	Soil Science.
Proc. Sci. Assoc., Vizianagram	Proceedings of the Science Association, Maharajah's College, Vizianagram.	Sprechsaal	Sprechsaal.
Proc. Soc. Exp. Biol. Med.	Proceedings of the Society for Experimental Biology and Medicine.	Stahl u. Eisen .	Stahl und Eisen.
Proc. S. Wales Inst. Eng.	Proceedings of the South Wales Institute of Engineers.	Stain Tech.	Stain Technology.
Proc. Tech. Sect. Paper Makers' Assoc.	Proceedings of the Technical Section of the Paper Makers' Association of Great Britain and Ireland.	Staz. sper. agr. ital. .	Stazioni sperimentali agrarie italiane.
		Sugar Bull.	Sugar Bulletin.
		Suomen Kem. .	Suomen Kemistilehti Acta Chemica Fennica.
		Superphosphat .	Svensk Kemisk Tidskrift.
		Svensk Kem. Tidskr.	Synthetic and Applied Finishes.
		Synth. Appl. Fin.	Technology Reports of the Tôhoku Imperial University, Sendai, Japan.
		Tech. Rep. Tôhoku .	Teknisk Tidskrift.
		Tekn. Tidsk.	

ABBREVIATED TITLE.	JOURNAL.
Textilber.	Melliand's Textilberichte über Wissenschaft, Industrie und Handel.
Tids. Kjemi.	Tidsskrift for Kjemi og Bergvesen.
Tonind.-Ztg.	Tonindustrie-Zeitung.
Trans. Amer. Inst. Chem. Eng.	Transactions of the American Institute of Chemical Engineers.
Trans. Amer. Inst. Metals	Transactions of the American Institution of Metals.
Trans. Amer. Inst. Min. Eng.	Transactions of the American Institute of Mining Engineers.
Trans. Ceram. Soc.	Transactions of the Ceramic Society.
Trans. Dokuchaiev Soil Inst.	Transactions of the Dokuchaiev Soil Institute.
Trans. Electrochem. Soc.	Transactions of the Electrochemical Society.
Trans. Faraday Soc.	Transactions of the Faraday Society.
Trans. Inst. Min. and Met.	Transactions of the Institution of Mining and Metallurgy.
Trans. Inst. Rubber Ind.	Transactions of the Institution of the Rubber Industry.
Trans. N. Eng. Inst. Min. and Met.	Transactions of the North of England Institute of Mining and Metallurgy.
Trans. New Zealand Inst.	Transactions of the New Zealand Institute.
Trans. Nova Scotia Inst. Sci.	Transactions of the Nova Scotia Institute of Science.
Trans. Opt. Soc.	Transactions of the Optical Society.
Trans. Roy. Irish Acad.	Transactions of the Royal Irish Academy.
Trans. Roy. Soc. Canada	Transactions of the Royal Society of Canada.
Trans. Roy. Soc. Edin.	Transactions of the Royal Society of Edinburgh.
Trans. Roy. Soc. S. Africa.	Transactions of the Royal Society of South Africa.
Trop. Agric.	Tropical Agriculturist (Ceylon).
Trop. Agric. (Trinidad)	Tropical Agriculture (Trinidad)
Tsch. Min. Mitt.	Tschermak's Mineralogische Mitteilungen.
U.S. Bur. Mines, Bull. and Tech. Papers.	United States Bureau of Mines, Bulletins and Technical Papers.
U.S. Bur. Plant Ind.	United States Bureau of Plant Industry.
U.S. Dept. Agric. Bull. (or Circ.)	United States Department of Agriculture Bulletins (or Circulars).
U.S. Hyg. Labor. Bull.	United States Hygienic Laboratory Bulletins.
U.S.P.	United States Patent.
Ukraine Chem. J.	Ukraine Chemical Journal.
Univ. Illinois Bull.	University of Illinois Bulletins.
Utah Agric. Coll. Exp. Stat. Bull.	Utah Agricultural College Experiment Station Bulletins.
Verfkroniek	Verfkroniek.
Verh. Geol. Reichsanst. Wien	Verhandlungen der Geologischen Reichsanstalt in Wien.
Verh. Ges. deut. Naturforsch. Aertzo	Verhandlungen der Gesellschaft deutscher Naturforscher und Aertze.
Virginia (Blacksburg) Exp. Sta. Bull.	Virginia (Blacksburg) Experiment Station Bulletin.
Virginia Truck Exp. Sta. Bull.	Virginia Truck Experiment Station Bulletin.

ABBREVIATED TITLE.	JOURNAL.
Welsh J. Agric.	Welsh Journal of Agriculture.
Wiss. Veröff. Siemens-Konz.	Wissenschaftliche Veröffentlichungen aus dem Siemens-Konzern.
Woch. Brau.	Wochenschrift für Brauerei.
Z. anal. Chem.	Zeitschrift für analytische Chemie
Z. anorg. Chem.	Zeitschrift für anorganische und allgemeine Chemie.
Z. Biol.	Zeitschrift für Biologie.
Z. deut. bot. Ges.	Zeitschrift der deutschen botanischen Gesellschaft.
Z. deut. Geol. Ges.	Zeitschrift der deutschen Geologischen Gesellschaft.
Z. Elektrochem.	Zeitschrift für Elektrochemie.
Z. exp. Path. Ther.	Zeitschrift für experimentelle Pathologie und Therapie.
Z. ges. Brauw.	Zeitschrift für das gesamte Brauwesen.
Z. ges. exp. Med.	Zeitschrift für die gesamte experimentelle Medizin.
Z. ges. Schiess- u. Sprengstoffw.	Zeitschrift für das gesamte Schiess- und Sprengstoffwesen.
Z. Hyg.	Zeitschrift für Hygiene und Infektionskrankheiten.
Z. Instrument.	Zeitschrift für Instrumentenkunde
Z. Krist.	Zeitschrift für Kristallographie.
Z. Metallk.	Zeitschrift für Metallkunde.
Z. Pflanz. Düng.	Zeitschrift für Pflanzenernährung, Düngung, und Bodenkunde.
Z. Physik	Zeitschrift für Physik.
Z. physikal. Chem.	Zeitschrift für physikalische Chemie.
Z. physikal. chem. Unterr.	Zeitschrift für den physikalischen und chemischen Unterricht.
Z. physiol. Chem.	Hoppe-Seyler's Zeitschrift für physiologische Chemie.
Z. prakt. Geol.	Zeitschrift für praktische Geologie.
Z. Sauerstoff Stickstoff Ind.	Zeitschrift für Sauerstoff und Stickstoff Industrie.
Z. Spiritusind.	Zeitschrift für Spiritusindustrie.
Z. Unters. Lebensm.	Zeitschrift für Untersuchung der Lebensmittel.
Z. Ver. deut. Zuckerind.	Zeitschrift des Vereins der deutschen Zucker-Industrie.
Z. Vitaminforsch.	Zeitschrift für Vitaminforschung.
Z. wiss. Biol.	Zeitschrift für wissenschaftliche Biologie.
Z. wiss. Mikrosk.	Zeitschrift für wissenschaftliche Mikroskopie und mikroskopische Technik.
Z. wiss. Phot.	Zeitschrift für wissenschaftliche Photographie, Photophysik und Photochemie.
Z. Zuckerind. Czecho-slov.	Zeitschrift für die Zuckerindustrie der Czecho-slovakischen Republik.
Zellstoff u. Papier	Zellstoff und Papier.
Zentr. Bakt.	Zentralblatt für Bakteriologie, Parasitenkunde und Infektionskrankheiten.
Zentr. Min.	Zentralblatt für Mineralogie, Geologie und Paläontologie.
Zentr. Zuckerind.	Zentralblatt für Zuckerindustrie.

List of Patents Abstracted.

BRITISH PATENTS.

No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.
297,829	258	381,093	158	382,273	2	382,886	26	383,511	138-	384,030	116	384,673	208
367,920	664	381,084	31	382,287	111	382,889	251	383,540	82	384,040	154	384,682	208
368,271	664	381,097	18	382,291	28	382,890	2	383,543	141	384,043	107	384,697	205
368,288	664	381,710	26	382,295	71	382,891	9	383,547	73	384,052	97	384,701	158
369,571	356	381,723	19	382,301	157	382,895	3	383,557	83	384,060	107	384,696	176
369,828	356	381,728	101	382,305	32	382,898	235	383,567	88	384,067	113	384,701	156
378,298	105	381,741	39	382,314	2	382,899	71	383,570	96	384,074	148	384,706	143
374,205	191	381,743	32	382,320	45	382,901	70	383,580	72	384,089	96	384,709	184
374,206	101	381,768	44	382,322	140	382,913	20	383,581	80	384,092	180	384,714	182
374,847	195	381,764	16	382,327	140	382,916	20	383,588	120	384,111	186	384,716	156
374,000	196	381,767	141	382,331	4	382,922	140	383,592	213	384,122	295	384,722	183
370,280	233	381,774	44	382,333	140	382,929	139	383,624	184	384,124	124	384,726	188
370,361	195	381,776	234	382,336	68	382,940	183	383,625	183	384,138	181	384,728	158
379,485	69	381,783	51	382,345	15	382,942	182	383,627	58	384,142	105	384,734	154
379,752	68	381,787	45	382,355	52	382,946	91	383,628	86	384,151	206	384,736	149
379,768	68	381,800	3	382,359	32	382,950	97	383,630	126	384,159	106	384,741	176
379,764	68	381,816	8	382,366	18	382,960	140	383,634	188	384,156	182	384,749	176
379,987	25	381,819	3	382,367	141	382,972	91	383,636	102	384,168	126	384,761	214
379,992	27	381,822	33	382,368	324	382,974	93	383,641	72	384,171	180	384,767	185
379,994	25	381,855	29	382,372	146	382,988	38	383,642	126	384,172	180	384,770	173
380,207	233	381,863	172	382,373	15	383,002	79	383,644	187	384,175	197	384,778	196
380,447	07	381,864	16	382,394	1	383,025	157	383,648	235	384,176	205	384,782	153
380,488	15	381,871	9	382,406	51	383,028	187	383,654	214	384,187	154	384,793	143
380,493	235	381,881	52	382,411	141	383,043	57	383,661	91	384,189	124	384,798	176
380,504	15	381,900	44	382,419	31	383,049	149	383,662	184	384,190	97	384,800	186
380,505	16	381,901	4	382,420	71	383,058	72	383,663	86	384,197	171	384,817	189
380,568	54	381,903	44	382,421	46	383,064	144	383,669	111	384,203	113	384,826	143
380,570	69	381,908	20	382,422	71	383,066	78	383,677	72	384,217	105	384,827	177
380,576	69	381,913	3	382,432	8	383,083	97	383,679	110	384,224	103	384,846	161
380,577	71	381,929	141	382,440	140	383,085	79	383,681	69	384,230	249	384,854	190
380,583	70	381,927	33	382,450	140	383,103	235	383,691	73	384,236	153	384,858	177
380,689	71	381,934	26	382,456	141	383,112	172	383,709	76	384,243	153	384,875	189
380,702	93	381,942	141	382,460	144	383,134	96	383,722	63	384,247	202	384,877	207
380,742	111	381,943	104	382,472	2	383,148	139	383,723	214	384,309	106	384,885	176
380,813	54	381,947	101	382,482	71	383,149	59	383,726	60	384,311	184	384,889	196
380,816	110	381,950	15	382,483	173	383,154	89	383,727	139	384,312	124	384,892	172
380,841	93	381,954	102	382,503	139	383,156	72	383,736	182	384,313	187	384,901	184
380,851	64	381,963	129	382,512	18	383,172	78	383,737	183	384,314	198	384,903	189
380,860	59	381,964	15	382,516	25	383,174	68	383,740	96	384,317	183	384,926	189
380,874	92	381,967	20	382,518	26	383,186	62	383,741	141	384,321	116	384,931	175
380,898	54	381,975	32	382,520	25	383,193	91	383,745	205	384,324	124	384,934	175
380,902	12	381,970	20	382,524	18	383,199	72	383,762	89	384,327	195	384,966	174
380,928	11	381,981	20	382,542	4	383,200	70	383,764	199	384,332	181	384,969	204
380,940	54	381,986	16	382,558	52	383,201	73	383,775	116	384,336	124	384,995	154
381,012	92	381,991	14	382,557	21	383,210	79	383,778	247	384,342	158	384,996	165
381,070	11	382,002	25	382,573	69	383,238	76	383,779	83	384,351	113	384,999	184
381,090	12	382,003	3	382,597	8	383,248	48	383,780	80	384,367	195	385,001	200
381,118	12	382,004	21	382,605	25	383,276	144	383,781	103	384,369	103	385,004	182
381,137	70	382,006	2	382,609	140	383,278	60	383,786	247	384,382	181	385,005	143
381,143	53	382,014	20	382,620	8	383,284	183	383,791	93	384,388	181	385,014	177
381,185	11	382,039	2	382,626	3	383,293	54	383,799	93	384,403	187	385,021	156
381,200	115	382,047	44	382,640	42	383,309	97	383,801	214	384,408	129	385,032	149
381,204	101	382,048	39	382,644	43	383,311	93	383,808	63	384,428	119	385,041	173
381,212	54	382,056	2	382,647	10	383,312	76	383,802	116	384,434	112	385,044	149
381,213	64	382,060	29	382,650	51	383,313	93	383,841	236	384,486	264	385,050	170
381,237	54	382,071	20	382,673	139	383,327	70	383,842	236	384,440	103	385,054	182
381,238	12	382,073	16	382,685	67	383,330	75	383,843	934	384,449	105	385,062	153
381,248	08	382,082	25	382,690	51	383,338	51	383,850	115	384,455	103	385,063	181
381,265	101	382,087	3	382,691	71	383,364	68	383,864	72	384,464	153	385,067	196
381,362	124	382,089	14	382,697	189	383,372	78	383,871	184	384,466	126	385,071	146
381,387	8	382,091	4	382,704	111	383,381	117	383,873	105	384,477	115	385,084	213
381,402	112	382,098	2	382,705	3	383,384	52	383,886	126	384,492	126	385,100	176
381,413	106	382,099	2	382,708	25	383,387	70	383,888	129	384,495	130	385,103	142
381,429	9	382,101	17	382,709	32	383,402	78	383,890	73	384,498	106	385,109	177
381,450	54	382,113	8	382,711	3	383,416	97	383,896	97	384,500	113	385,119	196
381,476	11	382,123	45	382,718	139	383,417	96	383,899	69	384,545	187	385,126	143
381,486	72	382,124	172	382,733	3	383,418	97	383,903	129	384,547	96	385,127	149
381,570	101	382,127	38	382,741	8	383,419	129	383,904	116	384,553	183	385,137	176
381,578	25	382,128	38	382,749	112	383,432	80	383,920	140	384,559	113	385,139	182
381,580	141	382,129	2	382,754	68	383,434	86	383,933	106	384,574	130	385,148	172
381,583	31	382,147	31	382,755	33	383,453	111	383,942	89	384,608	125	385,153	148
381,587	33	382,148	21	382,759	172	383,455	97	383,945	72	384,615	188	385,160	143
381,590	31	382,152	33	382,775	58	383,472	92	383,948	96	384,616	183	385,167	177
381,591	3	382,153	3	382,785	16	383,474	183	383,949	96	384,620	116	385,186	177
381,595	32	382,156	45	382,786	26	383,475	83	383,967	185	384,623	107	385,200	170
381,596	32	382,184	4	382,796	68	383,476	173	383,976	125	384,627	129	385,202	184
381,602	101	382,211	3	382,810	140	383,483	140	383,980	180	384,664	182	385,212	171
381,606	26	382,212	3	382,824	57	383,493	76	383,990	113	384,665	182	385,214	182
381,608	26	382,215	18	382,842	52	383,495	68	383,992	205	384,666	189	385,217	146
381,631	28	382,235	32	382,846	28	383,502	72	383,997	119	384,668	161	385,218	147
381,632	52	382,239	45	382,861	31	383,506	61	383,998	188	384,664	161	385,219	183
381,636	4	382,275	2	382,875	3	383,507	58	383,999	225	384,665	182	385,221	148
381,661	44	382,269	2	382,877	184	383,510	58	384,011	128	384,666	177	385,226	199
381,686	101	382,271	31	382,884	70			384,016	138	384,668	143	385,235	146

No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.
385,257	215	385,018	360	386,669	294	387,243	270	387,823	344	388,570	346	389,288	400
385,293	205	385,063	216	386,073	283	387,246	302	387,825	377	388,580	353	389,244	396
385,295	184	385,070	230	386,082	311	387,265	313	387,832	207	388,603	370	389,280	420
385,306	198	385,071	234	386,080	410	387,267	318	387,844	316	388,605	357	389,310	467
385,307	185	385,073	251	386,090	272	387,297	265	387,840	312	388,615	446	389,330	382
385,310	190	385,077	225	386,094	245	387,298	250	387,850	333	388,630	354	389,341	413
385,311	107	385,078	217	386,095	284	387,322	311	387,852	335	388,631	412	389,350	458
385,315	139	385,079	224	386,700	303	387,323	296	387,854	370	388,634	304	389,354	388
385,320	183	385,080	218	386,705	260	387,324	308	387,890	302	388,639	304	389,359	386
385,322	265	385,081	258	386,713	224	387,325	296	387,890	377	388,643	383	389,380	410
385,323	183	385,084	221	386,715	200	387,326	461	387,818	302	388,650	382	389,397	396
385,327	191	385,085	224	386,718	256	387,333	330	387,922	344	388,663	340	389,401	419
385,328	170	385,090	224	386,725	200	387,335	296	387,924	341	388,670	365	389,400	399
385,330	188	385,095	217	386,730	255	387,340	318	387,928	317	388,674	395	389,411	399
385,332	183	385,017	235	386,733	262	387,343	303	387,932	310	388,692	367	389,436	387
385,344	200	386,018	302	386,739	311	387,353	296	387,934	318	388,690	305	389,462	416
385,352	189	386,022	181	386,740	264	387,360	298	387,950	208	388,703	370	389,467	640
385,365	176	386,023	235	386,752	261	387,363	318	387,902	315	388,731	388	389,473	405
385,372	180	386,038	251	386,753	204	387,365	296	387,970	301	388,734	457	389,475	703
386,374	176	386,043	352	386,760	294	387,372	296	387,984	336	388,737	341	389,480	437
386,376	178	386,045	229	386,767	256	387,378	400	388,022	348	388,745	368	389,482	442
386,378	265	386,051	235	386,774	255	387,381	318	388,027	366	388,746	384	389,484	424
386,380	177	386,052	216	386,775	264	387,386	311	388,030	350	388,751	394	389,485	437
386,391	285	386,076	258	386,782	277	387,397	297	388,031	357	388,768	382	389,484	416
386,401	214	386,078	234	386,790	313	387,398	297	388,037	376	388,774	413	389,502	456
386,402	190	386,079	208	386,791	285	387,407	335	388,041	346	388,787	390	389,507	007
386,409	199	386,080	208	386,810	255	387,411	335	388,043	330	388,814	422	389,503	405
386,413	190	386,089	208	386,824	273	387,412	335	388,044	384	388,818	421	389,511	540
386,428	177	386,094	371	386,820	277	387,414	320	388,045	300	388,826	456	389,514	674
386,429	195	386,102	352	386,832	294	387,415	330	388,050	356	388,831	383	389,517	540
386,430	200	386,112	871	386,839	284	387,427	311	388,054	412	388,832	462	389,518	424
386,433	213	386,117	363	386,846	239	387,420	307	388,056	368	388,840	458	389,520	712
386,455	189	386,132	370	386,854	260	387,432	296	388,057	394	388,840	371	389,521	424
386,462	200	386,143	353	386,855	265	387,434	335	388,072	366	388,861	462	389,534	643
386,471	185	386,140	238	386,861	201	387,437	313	388,087	341	388,864	308	389,543	640
386,479	177	386,148	247	386,865	255	387,439	306	388,090	395	388,871	382	389,556	641
386,488	182	386,151	238	386,896	313	387,447	350	388,091	368	388,874	467	389,560	354
386,493	204	386,161	238	386,897	260	387,449	320	388,093	347	388,877	458	389,564	473
386,496	197	386,168	224	386,903	265	387,451	302	388,090	380	388,877	458	389,567	410
386,510	187	386,171	208	386,912	303	387,452	314	388,097	356	388,889	458	389,568	540
386,522	200	386,178	249	386,915	273	387,454	319	388,109	395	388,897	397	389,573	395
386,545	205	386,179	238	386,918	284	387,459	330	388,114	340	388,898	085	389,595	405
386,551	182	386,195	258	386,919	397	387,466	330	388,115	350	388,910	470	389,601	455
386,555	220	386,201	235	386,920	284	387,463	410	388,118	367	388,923	400	389,610	467
386,566	225	386,205	208	386,924	270	387,490	297	388,134	360	388,924	386	389,620	702
386,568	308	386,208	227	386,927	280	387,507	297	388,157	345	388,936	399	389,637	437
386,569	200	386,216	301	386,929	272	387,508	335	388,171	376	388,939	398	389,653	416
386,570	259	386,217	247	386,934	294	387,516	312	388,177	368	388,970	414	389,663	415
386,571	191	386,220	234	386,936	261	387,517	336	388,180	340	388,978	386	389,707	416
386,573	225	386,233	227	386,967	270	387,519	333	388,204	413	388,979	390	389,738	612
386,574	197	386,242	254	386,990	267	387,526	310	388,216	357	388,989	482	389,758	541
386,577	187	386,245	221	386,972	272	387,533	301	388,225	340	388,992	715	389,761	612
386,580	222	386,247	352	386,977	340	387,534	317	388,247	370	388,994	384	389,769	416
386,582	217	386,254	220	386,981	339	387,541	334	388,260	370	389,005	380	389,770	437
386,586	205	386,256	240	386,982	256	387,542	320	388,255	368	389,012	371	389,810	455
386,587	220	386,263	207	386,989	261	387,547	382	388,257	395	389,020	395	389,816	434
386,589	190	386,276	406	386,990	272	387,548	311	388,277	344	389,033	421	389,818	683
386,590	195	386,310	711	386,991	302	387,562	312	388,281	362	389,037	412	389,822	430
386,595	353	386,312	208	386,993	304	387,565	298	388,282	304	389,042	421	389,823	423
386,596	199	386,314	294	386,997	201	387,569	306	388,284	365	389,044	385	389,835	682
386,598	190	386,328	238	387,003	264	387,573	296	388,297	367	389,046	388	389,837	477
386,604	249	386,330	220	387,004	264	387,585	314	388,303	344	389,049	421	389,842	639
386,607	249	386,335	294	387,006	256	387,589	323	388,309	357	389,053	588	389,862	436
386,608	191	386,343	294	387,009	273	387,598	306	388,328	345	389,054	395	389,863	687
386,609	101	386,351	227	387,015	285	387,598	336	388,332	380	389,082	385	389,860	687
386,610	176	386,359	228	387,019	267	387,614	306	388,341	358	389,083	308	389,865	473
386,613	187	386,365	225	387,044	255	387,615	312	388,344	344	389,086	400	389,870	423
386,617	225	386,369	230	387,045	277	387,621	290	388,387	350	389,092	370	389,871	455
386,619	176	386,382	215	387,053	283	387,629	313	388,399	436	389,095	369	389,872	498
386,620	200	386,385	238	387,055	276	387,631	336	388,372	371	389,098	458	389,873	481
386,622	258	386,395	208	387,060	255	387,639	320	388,374	445	389,099	399	389,876	424
386,623	335	386,397	208	387,066	273	387,668	344	388,380	340	389,108	540	389,884	582
386,629	442	386,403	283	387,067	268	387,670	318	388,382	364	389,109	540	389,887	472
386,630	199	386,411	221	387,075	277	387,671	318	388,384	357	389,111	405	389,892	434
386,634	258	386,453	208	387,092	202	387,681	377	388,387	356	389,113	378	389,914	436
386,635	370	386,463	272	387,107	357	387,684	311	388,400	344	389,120	382	389,915	583
386,636	197	386,464	239	387,115	340	387,685	714	388,402	379	389,122	540	389,937	454
386,638	196	386,465	208	387,121	202	387,686	344	388,408	366	389,126	304	389,951	440
386,640	258	386,466	227	387,124	250	387,692	341	388,417	405	389,130	300	389,961	583
386,641	191	386,469	240	387,125	245	387,693	341	388,421	356	389,133	457	389,963	473
386,643	199	386,470	272	387,126	286	387,694	324	388,426	343	389,134	457	389,969	893
386,644	198	386,490	272	387,128	707	387,699	311	388,427	343	389,135	467	389,976	447
386,645	175	386,493	224	387,136	277	387,710	302	388,430	379	389,136	457	389,978	421
386,646	186	386,531	238	387,144	364	387,718	472	388,432	358	389,138	428	390,000	

No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.
300,089	427	300,780	478	301,331	521	301,087	783	302,002	712	303,375	677	304,033	703
300,097	481	300,788	448	301,334	544	301,088	547	302,004	502	303,381	667	304,042	656
300,106	480	300,805	513	301,330	554	301,097	549	302,072	013	303,403	608	304,043	823
300,110	474	300,806	607	301,344	555	302,011	779	302,085	776	303,406	628	304,064	657
300,114	487	300,809	505	301,345	506	302,012	779	302,688	009	303,408	783	304,073	676
300,120	479	300,819	545	301,350	544	302,017	574	302,690	009	303,412	685	304,077	078
300,121	474	300,824	504	301,364	514	302,023	586	302,711	552	303,429	071	304,082	713
300,148	477	300,825	661	301,369	506	302,024	550	302,717	707	303,433	073	304,084	892
300,149	630	300,827	534	301,388	528	302,027	781	302,728	503	303,437	624	304,086	774
300,162	472	300,828	405	301,390	634	302,038	553	302,742	622	303,438	694	304,086	822
300,166	017	300,831	765	301,467	606	302,039	572	302,748	708	303,446	656	304,087	822
300,176	503	300,834	511	301,435	777	302,042	556	302,751	013	303,449	685	304,103	657
300,179	017	300,840	007	301,442	527	302,044	530	302,763	777	303,454	671	304,114	713
300,185	017	300,844	515	301,443	545	302,046	802	302,765	588	303,465	653	304,115	703
300,186	448	300,845	001	301,444	776	302,047	802	302,772	021	303,474	678	304,117	716
300,187	404	300,846	530	301,454	556	302,056	779	302,775	020	303,486	677	304,122	671
300,188	456	300,847	405	301,462	546	302,062	777	302,780	588	303,491	627	304,162	671
300,189	448	300,849	534	301,468	780	302,083	589	302,789	651	303,505	677	304,182	731
300,191	457	300,850	503	301,480	543	302,127	004	302,797	506	303,507	658	304,193	713
300,194	494	300,863	001	301,493	572	302,134	547	302,814	814	303,510	656	304,195	893
300,198	461	300,867	514	301,495	548	302,166	782	302,820	060	303,524	813	304,196	623
300,205	485	300,870	507	301,497	545	302,178	545	302,838	504	303,527	657	304,197	893
300,207	417	300,898	495	301,508	557	302,180	608	302,839	768	303,531	620	304,212	698
300,209	017	300,899	503	301,511	558	302,185	686	302,845	688	303,534	624	304,216	699
300,211	017	300,905	061	301,514	556	302,186	782	302,851	769	303,548	785	304,217	699
300,218	622	300,909	512	301,532	536	302,191	585	302,870	608	303,561	657	304,244	677
300,222	456	300,922	515	301,545	579	302,194	026	302,878	777	303,576	670	304,275	712
300,236	473	300,936	007	301,559	529	302,206	781	302,904	022	303,591	609	304,282	774
300,244	474	300,944	511	301,570	812	302,214	548	302,914	778	303,600	682	304,312	858
300,246	471	300,971	620	301,582	549	302,218	585	302,924	039	303,601	738	304,313	715
300,248	496	300,977	514	301,592	543	302,222	628	302,931	622	303,602	738	304,314	731
300,249	477	300,980	506	301,600	777	302,226	506	302,932	711	303,607	634	304,316	793
300,250	477	300,984	495	301,603	580	302,237	506	302,938	053	303,608	822	304,317	893
300,255	472	300,987	001	301,610	777	302,246	589	302,952	640	303,614	677	304,332	863
300,290	478	300,999	511	301,622	528	302,260	501	302,954	625	303,619	880	304,333	863
300,319	474	301,022	512	301,626	780	302,289	776	302,958	641	303,623	675	304,343	858
300,327	402	301,031	505	301,632	545	302,290	778	302,960	641	303,625	657	304,346	793
300,330	473	301,038	495	301,656	542	302,310	609	302,980	626	303,631	823	304,350	743
300,337	408	301,057	405	301,658	555	302,324	572	302,995	058	303,632	823	304,373	785
300,352	403	301,062	511	301,660	537	302,336	572	303,004	066	303,635	685	304,375	855
300,353	464	301,068	495	301,661	574	302,340	589	303,011	778	303,644	677	304,376	855
300,354	450	301,073	062	301,662	549	302,342	868	303,022	641	303,664	694	304,378	704
300,357	712	301,078	506	301,669	543	302,355	040	303,023	641	303,668	794	304,387	850
300,358	447	301,105	504	301,677	814	302,358	014	303,034	640	303,677	730	304,389	855
300,360	472	301,109	567	301,682	580	302,361	634	303,036	641	303,678	739	304,406	785
300,373	461	301,112	552	301,680	813	302,364	589	303,039	633	303,684	669	304,408	732
300,377	470	301,113	006	301,703	026	302,365	580	303,041	694	303,690	822	304,414	696
300,378	491	301,114	549	301,704	028	302,374	635	303,045	639	303,712	664	304,416	856
300,402	477	301,115	558	301,715	777	302,377	543	303,048	637	303,732	077	304,442	788
300,406	053	301,119	512	301,720	626	302,382	800	303,057	641	303,739	683	304,447	805
300,416	017	301,120	802	301,722	021	302,388	593	303,071	647	303,742	607	304,449	688
300,426	472	301,122	558	301,726	579	302,393	608	303,082	049	303,753	822	304,450	721
300,435	477	301,130	506	301,720	572	302,399	778	303,084	665	303,760	670	304,471	710
300,440	504	301,141	741	301,737	554	302,400	556	303,087	639	303,764	794	304,475	856
300,441	492	301,142	535	301,741	812	302,410	779	303,092	714	303,769	822	304,484	698
300,460	472	301,144	534	301,769	507	302,424	572	303,093	777	303,774	607	304,495	722
300,504	056	301,147	513	301,772	023	302,427	600	303,102	812	303,785	828	304,498	888
300,506	061	301,148	514	301,773	023	302,430	609	303,106	665	303,788	694	304,499	864
300,513	067	301,153	544	301,774	778	302,434	572	303,108	638	303,797	085	304,500	688
300,515	067	301,155	552	301,780	588	302,452	779	303,115	642	303,799	629	304,504	716
300,516	002	301,156	606	301,782	021	302,464	549	303,117	658	303,807	660	304,606	774
300,517	067	301,158	543	301,783	021	302,465	589	303,128	025	303,808	661	304,610	687
300,518	067	301,168	740	301,784	507	302,475	609	303,141	640	303,824	665	304,611	695
300,519	067	301,170	554	301,786	588	302,483	586	303,142	656	303,830	823	304,617	724
300,521	485	301,171	643	302,496	579	302,498	679	303,143	693	303,837	794	304,618	707
300,523	062	301,175	540	302,497	658	302,498	679	303,144	713	303,868	739	304,637	893
300,526	482	301,178	543	301,801	021	302,498	679	303,146	051	303,873	823	304,639	703
300,529	062	301,179	543	301,802	777	302,531	609	303,152	776	303,883	684	304,651	794
300,530	503	301,185	573	301,813	567	302,535	708	303,158	778	303,890	664	304,653	715
300,531	480	301,196	574	301,817	528	302,544	613	303,159	664	303,896	660	304,672	773
300,532	480	301,206	536	301,825	555	302,547	833	303,160	692	303,899	670	304,676	785
300,534	002	301,209	741	301,828	597	302,553	613	303,164	617	303,900	676	304,687	731
300,541	503	301,213	740	301,833	580	302,556	600	303,172	042	303,907	670	304,688	802
300,543	470	301,214	784	301,839	635	302,559	613	303,174	656	303,914	664	304,612	658
300,545	404	301,215	741	301,840	679	302,564	591	303,210	656	303,932	801	304,621	731
300,549	405	301,221	530	301,847	623	302,568	595	303,221	625	303,934	657	304,632	863
300,553	607	301,228	500	301,848	552	302,571	812	303,258	712	303,937	822	304,637	795
300,554	473	301,231	528	301,854	558	302,586	592	303,240	778	303,941	861	304,657	857
300,556	602	301,238	536	301,858	580	302,592	507	303,264	676	303,955	822	304,666	774
300,561	474	301,240	529	301,859	770	302,593	023	303,265	776	303,956	733	304,674	856
300,610	685	301,245	534	301,862	780	302,600	593	303,266	776	303,957	690	304,678	856
300,628	479	301,248	552	301,863	543	302,613	588	303,267	677	303,958	674	304,679	856
300,634	403	301,252	783	301,865	520	302,621	621	303,270	671	303,962	703	304,685	784
300,641	607	301,258	520	301,868	544	302,631	770	303,271	778	303,966	823	304,68	

No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.
394,747	774	395,400	798	396,008	875	396,662	908	397,293	940	397,884	941	398,538	973
394,753	719	395,412	735	396,071	837	396,672	846	397,295	866	397,890	944	398,540	1045
394,754	723	395,416	752	396,077	909	396,698	895	397,297	896	397,901	955	398,544	1037
394,761	746	395,421	735	396,078	909	396,701	865	397,300	920	397,906	1051	398,551	906
394,776	717	395,426	789	396,079	905	396,712	866	397,303	920	397,907	945	398,550	964
394,793	860	395,430	757	396,081	837	396,713	867	397,309	906	397,909	926	398,561	1063
394,806	712	395,440	781	396,087	850	396,717	865	397,323	938	397,914	956	398,566	1034
394,816	784	395,448	853	396,088	829	396,718	902	397,333	926	397,915	956	398,571	1037
394,843	782	395,456	752	396,092	885	396,723	861	397,339	867	397,938	954	398,572	966
394,845	680	395,458	765	396,095	817	396,724	954	397,364	880	397,961	954	398,580	1043
394,858	605	395,473	851	396,097	820	396,729	885	397,365	870	397,987	951	398,583	1051
394,865	712	395,478	904	396,098	816	396,735	957	397,369	866	397,997	930	398,584	992
394,867	694	395,482	787	396,100	907	396,736	803	397,372	972	398,000	945	398,702	979
394,874	745	395,491	704	396,104	817	396,737	957	397,373	924	398,004	945	398,722	973
394,887	857	395,505	703	396,107	901	396,741	957	397,378	911	398,007	950	398,724	973
394,893	893	395,512	825	396,122	851	396,743	874	397,380	898	398,010	945	398,730	1051
394,899	717	395,513	825	396,120	874	396,744	897	397,390	911	398,020	988	398,732	1008
394,906	745	395,517	782	396,125	845	396,746	874	397,404	870	398,021	926	398,734	1037
394,906	703	395,527	888	396,130	888	396,749	890	397,405	880	398,023	1045	398,738	1062
394,912	689	395,537	752	396,142	861	396,750	956	397,407	914	398,028	918	398,751	973
394,917	774	395,538	708	396,150	845	396,761	955	397,408	914	398,032	1045	398,752	1008
394,922	800	395,570	708	396,151	875	396,769	878	397,409	914	398,033	960	398,767	966
394,974	800	395,572	708	396,154	881	396,770	954	397,410	914	398,037	1045	398,770	993
394,975	735	395,590	752	396,156	816	396,774	955	397,411	914	398,047	851	398,780	970
394,977	760	395,585	704	396,158	880	396,778	988	397,412	913	398,053	957	398,801	1004
394,979	857	395,586	794	396,159	881	396,779	848	397,419	930	398,055	945	398,807	1066
394,981	858	395,610	889	396,177	909	396,780	964	397,427	925	398,064	954	398,818	955
394,989	857	395,619	735	396,186	905	396,793	860	397,432	897	398,070	929	398,820	1007
394,990	857	395,633	704	396,205	817	396,796	860	397,434	914	398,080	1004	398,834	1033
394,995	857	395,635	853	396,206	889	396,800	873	397,435	914	398,086	955	398,842	1097
395,000	856	395,641	730	396,217	909	396,820	972	397,445	906	398,091	930	398,846	1007
395,003	908	395,642	748	396,250	873	396,824	890	397,468	951	398,099	1045	398,854	1001
395,004	909	395,657	751	396,251	907	396,827	972	397,470	913	398,112	951	398,872	966
395,005	910	395,687	837	396,255	817	396,840	897	397,472	904	398,114	946	398,878	1006
395,006	910	395,694	782	396,256	865	396,858	875	397,479	904	398,118	930	398,887	1053
395,007	765	395,705	881	396,265	829	396,859	961	397,481	964	398,121	944	398,900	1054
395,023	756	395,707	782	396,270	904	396,863	897	397,482	938	398,132	988	398,914	992
395,026	900	395,718	813	396,309	825	396,870	856	397,484	951	398,136	959	398,932	1063
395,027	909	395,720	834	396,311	836	396,880	880	397,489	940	398,139	945	398,936	1046
395,028	820	395,721	704	396,318	939	396,893	961	397,505	907	398,160	950	398,947	1000
395,050	873	395,722	781	396,320	908	396,895	958	397,506	913	398,161	958	398,958	1007
395,052	815	395,726	778	396,344	825	396,901	861	397,509	911	398,182	957	398,969	992
395,060	874	395,729	829	396,351	908	396,910	880	397,515	940	398,183	961	398,982	999
395,063	856	395,732	777	396,354	837	396,924	879	397,516	940	398,186	1005	398,992	1045
395,064	874	395,737	782	396,375	904	396,933	972	397,520	897	398,172	965	399,006	1054
395,066	801	395,739	816	396,380	874	396,940	874	397,532	914	398,173	964	399,000	1060
395,074	856	395,741	778	396,390	816	396,951	950	397,534	913	398,175	961	399,014	992
395,092	820	395,760	814	396,393	908	396,952	913	397,537	951	398,180	965	399,030	1045
395,109	801	395,760	884	396,395	900	396,964	868	397,538	925	398,191	1007	399,037	973
395,115	860	395,761	785	396,398	861	396,968	889	397,540	898	398,192	1004	399,049	1063
395,110	900	395,766	833	396,400	847	396,969	945	397,550	960	398,194	978	399,051	1076
395,124	814	395,774	880	396,405	880	396,976	958	397,553	972	398,200	944	399,053	1043
395,131	855	395,775	880	396,412	909	396,980	862	397,554	929	398,209	1010	399,066	1001
395,134	835	395,788	816	396,414	940	396,992	863	397,600	900	398,210	945	399,067	957
395,140	766	395,816	782	396,415	875	397,001	879	397,600	874	398,218	950	399,101	860
395,152	857	395,818	813	396,424	861	397,016	891	397,610	895	398,219	952	399,112	993
395,155	744	395,820	779	396,427	853	397,025	955	397,638	911	398,222	952	399,119	1044
395,158	873	395,832	779	396,428	860	397,034	956	397,640	951	398,225	1016	399,124	1064
395,166	857	395,844	786	396,429	912	397,039	878	397,646	972	398,226	1036	399,126	1055
395,182	828	395,853	783	396,430	912	397,046	861	397,664	896	398,237	995	399,151	1037
395,183	900	395,862	835	396,431	912	397,050	901	397,666	896	398,243	1005	399,171	1005
395,185	828	395,864	783	396,432	902	397,059	848	397,672	932	398,258	1005	399,173	1000
395,192	821	395,865	786	396,434	863	397,061	972	397,676	932	398,279	901	399,176	1010
395,193	856	395,867	853	396,456	1008	397,072	901	397,690	929	398,288	1036	399,177	1063
395,197	744	395,871	817	396,467	900	397,079	873	397,692	891	398,306	1023	399,182	1001
395,198	855	395,880	837	396,480	817	397,082	902	397,693	909	398,319	1023	399,183	1019
395,199	766	395,889	813	396,485	881	397,114	911	397,697	896	398,324	946	399,186	992
395,202	855	395,893	851	396,503	880	397,124	906	397,699	929	398,329	1034	399,191	1005
395,217	757	395,894	837	396,517	852	397,128	898	397,706	896	398,348	1038	399,201	998
395,225	743	395,899	837	396,545	1010	397,129	881	397,711	1054	398,349	945	399,206	1021
395,227	857	395,908	838	396,551	907	397,132	928	397,714	938	398,371	1054	399,207	992
395,231	856	395,912	816	396,558	816	397,134	926	397,717	972	398,394	1016	399,208	1020
395,232	856	395,914	851	396,563	905	397,136	930	397,727	938	398,402	975	399,211	1621
395,243	782	395,918	817	396,575	860	397,148	907	397,729	895	398,403	1009	399,213	1022
395,251	860	395,947	781	396,576	906	397,159	941	397,735	912	398,427	1051	399,219	1063
395,264	765	395,949	783	396,579	817	397,161	903	397,740	940	398,454	1068	399,220	1006
395,273	874	395,951	770	396,581	845	397,170	941	397,741	912	398,474	955	399,232	1069
395,282	820	395,957	817	396,585	894	397,179	924	397,744	896	398,477	979	399,241	1001
395,287	736	395,968	780	396,590	1009	397,187	904	397,773	929	398,478	1051	399,252	992
395,291	757	395,971	811	396,594	846	397,188	941	397,775	904	398,491	993	399,258	899
395,296	939	395,976	816	396,601	876	397,190	908	397,776	938	398,502	954	399,261	1064
395,299	890	395,979	793	396,605	936	397,191	929	397,787	912	398,503	954	399,268	1001
395,300	828	395,983	829	396,608	816	397,192	941	397,815	951	398,504	954	399,277	1010
395,305	827	395,989	795										

No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.
399,401	1063	399,520	1047	399,677	1052	399,753	1048	399,817	1000	399,916	1049	400,035	1052
399,402	990	399,533	1053	399,684	1010	399,757	992	399,818	1086	399,917	1088	400,045	1057
399,405	903	399,534	1052	399,685	1063	399,769	1047	399,820	1055	399,920	1052	400,050	1049
399,441	992	399,537	1054	399,708	1010	399,772	1000	399,822	1051	399,928	1047	400,068	1060
399,401	1049	399,553	1087	399,713	1055	399,786	1085	399,823	1083	399,940	1000	400,069	1048
399,402	1083	399,559	1053	399,718	1008	399,790	1048	399,826	1054	399,952	1054	400,109	1056
399,497	1069	399,560	1010	399,723	1047	399,792	1047	399,831	1033	399,991	1046	400,121	1064
399,508	1051	399,583	1048	399,724	1040	399,793	1047	399,842	1009	399,998	1078	400,135	1054
399,509	1051	399,590	1051	399,733	990	399,795	1052	399,848	1047	400,001	1070	400,143	1055
399,512	1052	399,634	1050	399,737	1047	399,800	1054	399,868	1000	400,020	1064		
399,520	1040	399,635	1031	399,738	1000	399,811	1052	399,876	1070	400,024	1040		
399,527	907	399,640	997	399,749	1056	399,814	1000	399,871	1070	400,026	1064		
399,528	1048	399,648	1083	399,750	1056	399,810	1000	399,905	1054	400,031	1053		

UNITED STATES PATENTS.

(Note.—The letter "R" indicates that a reissue of the patent is referred to.)

No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.
1,762,990	717	1,822,530	336	1,840,036	220	1,845,378	55	1,848,015	8	1,848,081	33	1,856,123	80		
1,766,221	057	1,823,409	218	1,840,335	201	1,845,503	235	1,848,042	48	1,848,053	89	1,850,135	80		
1,787,493	227	1,823,704	217	1,840,338	20	1,845,605	290	1,848,051	4	1,848,056	25	1,850,136	80		
1,787,630	210	1,823,865	218	1,840,450	60	1,845,751	207	1,848,054	9	1,848,060	63	1,850,139	68		
1,787,624	210	1,824,068	210	1,840,576	261	1,845,760	297	1,848,058	25	1,848,064	130	1,850,166	45		
1,788,520	220	1,824,000	219	1,840,570	339	1,846,107	93	1,848,063	10	1,848,109	78	1,850,221	62		
1,788,772	238	1,824,070	219	1,840,644	262	1,846,184	234	1,848,077	31	1,848,140	61	1,850,224	94		
1,788,800	218	1,824,071	219	1,840,760	220	1,846,334	8	1,848,081	18	1,849,187	129	1,850,225	94		
1,789,022	218	1,824,426	210	1,840,952	18	1,846,630	234	1,848,095	103	1,849,107	51	1,850,298	26		
1,789,071	218	1,824,558	210	1,840,952	18	1,846,666	11	1,848,100	3	1,849,108	99	1,850,316	70		
1,789,204	251	1,824,610	217	1,841,071	18	1,846,666	11	1,848,106	31	1,849,109	99	1,850,330	69		
1,789,279	222	1,824,086	222	1,841,254	340	1,846,738	111	1,848,123	10	1,849,200	76	1,850,333	67		
1,789,352	219	1,824,898	216	1,841,279	260	1,846,844	112	1,848,135	33	1,849,244	93	1,850,355	112		
1,789,624	220	1,824,963	217	1,841,002	67	1,847,080	40	1,848,158	31	1,849,245	93	1,850,381	67		
1,789,987	210	1,825,636	251	1,841,025	233	1,847,083	3	1,848,184	2	1,849,252	96	1,850,388	69		
1,790,202	218	1,825,654	240	1,841,026	233	1,847,101	20	1,848,185	2	1,849,267	66	1,850,416	111		
1,790,510	221	1,825,692	218	1,841,074	261	1,847,102	20	1,848,193	45	1,849,286	25	1,850,419	69		
1,790,518	215	1,825,814	216	1,841,007	61	1,847,111	14	1,848,197	2	1,849,289	62	1,850,426	236		
1,790,519	215	1,826,302	210	1,841,768	260	1,847,123	32	1,848,213	31	1,849,293	71	1,850,427	240		
1,810,261	251	1,826,021	220	1,841,876	202	1,847,162	44	1,848,264	61	1,849,334	58	1,850,429	96		
1,810,267	219	1,827,254	222	1,841,913	196	1,847,177	234	1,848,266	61	1,849,354	80	1,850,430	96		
1,810,552	218	1,827,653	217	1,841,940	60	1,847,198	20	1,848,292	57	1,849,355	64	1,850,480	97		
1,810,691	2	1,827,680	251	1,842,092	50	1,847,197	20	1,848,305	26	1,849,356	94	1,850,521	61		
1,810,696	110	1,827,737	222	1,842,112	265	1,847,199	8	1,848,323	69	1,849,357	59	1,850,529	227		
1,810,699	153	1,827,823	210	1,842,163	291	1,847,210	42	1,848,329	31	1,849,378	94	1,850,537	62		
1,811,263	42	1,828,267	251	1,842,230	159	1,847,311	14	1,848,344	26	1,849,420	65	1,850,501	52		
1,811,264	42	1,828,525	251	1,842,272	110	1,847,326	14	1,848,346	2	1,849,436	26	1,850,576	69		
1,812,432	8	1,828,699	221	1,842,280	111	1,847,356	42	1,848,380	63	1,849,453	61	1,850,600	58		
1,813,304	124	1,828,660	253	1,842,287	60	1,847,355	30	1,848,390	234	1,849,456	52	1,850,613	112		
1,813,440	480	1,829,038	238	1,842,293	260	1,847,367	60	1,848,416	111	1,849,470	110	1,850,617	96		
1,813,600	481	1,829,404	217	1,842,390	261	1,847,368	4	1,848,437	70	1,849,489	80	1,850,643	91		
1,813,838	230	1,829,452	251	1,842,414	261	1,847,400	9	1,848,438	70	1,849,492	63	1,850,644	94		
1,813,867	251	1,833,485	218	1,842,099	191	1,847,413	9	1,848,461	235	1,849,502	110	1,850,673	80		
1,814,286	481	1,833,710	217	1,842,772	20	1,847,437	29	1,848,482	4	1,849,503	86	1,850,702	58		
1,814,287	481	1,834,080	210	1,842,854	17	1,847,442	9	1,848,486	2	1,849,527	25	1,850,716	80		
1,814,288	481	1,834,636	219	1,842,884	19	1,847,488	9	1,848,553	57	1,849,535	144	1,850,726	68		
1,815,878	218	1,835,571	218	1,843,058	284	1,847,520	40	1,848,561	10	1,849,537	78	1,850,732	227		
1,816,145	234	1,835,692	216	1,843,530	234	1,847,527	25	1,848,567	62	1,849,560	92	1,850,791	57		
1,816,845	216	1,835,700	217	1,843,593	297	1,847,530	30	1,848,568	10	1,849,594	25	1,850,818	70		
1,816,848	220	1,835,754	220	1,843,705	201	1,847,540	40	1,848,572	3	1,849,622	96	1,850,819	70		
1,816,895	218	1,835,755	220	1,843,706	267	1,847,542	2	1,848,570	26	1,849,653	62	1,850,832	68		
1,816,911	210	1,835,915	210	1,843,718	261	1,847,555	112	1,848,602	14	1,849,654	52	1,850,845	63		
1,817,304	218	1,836,005	234	1,843,719	261	1,847,590	60	1,848,610	14	1,849,656	76	1,850,928	79		
1,817,444	218	1,836,047	218	1,843,842	266	1,847,599	33	1,848,654	61	1,849,658	234	1,850,945	51		
1,817,983	207	1,836,048	218	1,844,013	267	1,847,600	33	1,848,658	15	1,849,703	80	1,850,953	68		
1,817,992	217	1,836,090	218	1,844,015	267	1,847,601	33	1,848,659	15	1,849,704	80	1,850,975	227		
1,819,079	222	1,836,136	217	1,844,120	266	1,847,602	9	1,848,660	31	1,849,749	25	1,850,991	69		
1,819,080	222	1,836,170	218	1,844,381	297	1,847,622	112	1,848,661	14	1,849,757	70	1,851,007	126		
1,819,112	234	1,836,171	218	1,844,350	54	1,847,623	10	1,848,662	14	1,849,778	86	1,851,008	103		
1,819,113	234	1,836,183	218	1,844,350	54	1,847,624	10	1,848,681	10	1,849,788	78	1,851,015	225		
1,819,462	355	1,836,201	220	1,844,350	60	1,847,625	4	1,848,686	58	1,849,832	70	1,851,024	130		
1,819,585	216	1,836,211	220	1,844,393	60	1,847,641	32	1,848,714	45	1,849,837	73	1,851,029	213		
1,819,680	220	1,836,212	219	1,844,394	206	1,847,653	717	1,848,721	33	1,849,867	57	1,851,030	126		
1,820,001	246	1,836,307	220	1,844,394	64	1,847,654	8	1,848,723	61	1,849,886	70	1,851,038	63		
1,820,274	218	1,836,325	216	1,844,428	235	1,847,656	58	1,848,743	62	1,849,911	26	1,851,071	129		
1,820,298	350	1,836,326	216	1,844,430	200	1,847,659	25	1,848,797	71	1,849,920	40	1,851,093	214		
1,820,463	251	1,836,486	216	1,844,431	206	1,847,664	60	1,848,798	71	1,849,923	60	1,851,109	129		
1,820,540	356	1,836,702	240	1,844,518	12	1,847,670	26	1,848,806	42	1,849,932	97	1,851,130	111		
1,820,634	319	1,836,710	216	1,844,536	68	1,847,671	20	1,848,811	2	1,849,960	60	1,851,140	111		
1,820,690	356	1,837,837	221	1,844,568	68	1,847,709	18	1,848,813	61	1,849,985	60	1,851,140	130		
1,820,816	350	1,837,860	219	1,844,844	54	1,847,711	53	1,848,810	71	1,849,985	188	1,851,163	130		
1,821,324	217	1,838,002	240	1,844,857	53	1,847,773	103	1,848,857	71	1,850,017	60	1,851,165	128		
1,821,607	217	1,838,345	285	1,844,926	54	1,847,845	4	1,848,858	71	1,850,022	52	1,851,176	103		
1,822,008	217	1,838,621	266	1,845,029	297	1,847,888	27	1,848,884	60	1,850,038	60	1,851,179	60		
1,822,016	219	1,838,621	266	1,845,029	71	1,847,927	26	1,848,893	26	1,850,044	96	1,851,181	107		
1,822,122	220	1,839,526	210	1,845,113	69	1,847,929	111	1,848,899	70	1,850,055	76	1,851,203	100		
1,822,253	356	1,839,848	251	1,845,144	68	1,847,967	3	1,848,913	31	1,850,099	63	1,851,204	114		
1,822,490	221	1,839,974	217	1,845,145	70	1,848,002	71	1,848,928	4	1,850,101	97	1,851,218	111		
1,822,533	350	1,840,035	219	1,845,206	236	1,848,010	89	1,848,945	4	1,850,106	94	1,851,266	131		

No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.
1,851,272	60	1,852,648	111	1,854,557	142	1,855,904	311	1,857,095	301	1,850,013	442	1,861,317	429
1,851,273	50	1,852,672	108	1,854,559	131	1,855,921	288	1,857,702	268	1,850,042	448	1,861,381	449
1,851,208	72	1,852,687	147	1,854,910	170	1,856,021	286	1,857,761	378	1,850,051	432	1,861,398	450
1,851,308	06	1,852,700	115	1,854,921	207	1,856,007	205	1,857,708	288	1,850,053	446	1,861,407	455
1,851,308	105	1,852,712	213	1,854,928	195	1,856,114	205	1,857,805	345	1,850,080	446	1,861,408	460
1,851,312	180	1,852,713	129	1,854,929	195	1,856,120	280	1,857,810	288	1,850,092	420	1,861,415	434
1,851,325	130	1,852,713	107	1,854,950	154	1,856,141	250	1,857,819	315	1,850,098	432	1,861,452	408
1,851,336	102	1,852,763	130	1,854,984	140	1,856,144	206	1,857,825	310	1,850,127	033	1,861,458	088
1,851,336	174	1,852,788	181	1,854,987	146	1,856,150	259	1,857,863	288	1,850,134	432	1,861,490	545
1,851,300	72	1,852,797	112	1,854,700	161	1,856,201	319	1,857,884	280	1,850,135	432	1,861,513	477
1,851,309	78	1,852,800	129	1,854,702	161	1,856,204	473	1,857,914	312	1,850,139	432	1,861,514	477
1,851,370	110	1,852,818	129	1,854,744	157	1,856,270	032	1,857,947	312	1,850,140	406	1,861,543	988
1,851,388	125	1,852,826	113	1,854,763	154	1,856,271	031	1,857,948	301	1,850,149	432	1,861,550	477
1,851,411	61	1,852,836	110	1,854,764	170	1,856,294	270	1,857,970	272	1,850,150	440	1,861,568	432
1,851,432	100	1,852,850	148	1,854,770	214	1,856,304	260	1,857,981	310	1,850,151	481	1,861,573	427
1,851,460	115	1,852,865	113	1,854,776	174	1,856,316	280	1,857,985	301	1,850,155	427	1,861,592	474
1,851,487	105	1,852,908	225	1,854,780	230	1,856,322	264	1,858,007	312	1,850,158	400	1,861,624	545
1,851,522	102	1,853,049	168	1,854,801	138	1,856,386	273	1,858,002	312	1,850,160	480	1,861,625	433
1,851,527	230	1,853,084	180	1,854,800	138	1,856,401	301	1,858,003	283	1,850,161	460	1,861,637	476
1,851,573	72	1,853,097	105	1,854,882	188	1,856,442	270	1,858,003	286	1,850,168	460	1,861,685	477
1,851,576	112	1,853,151	170	1,854,885	167	1,856,452	268	1,858,135	330	1,850,168	427	1,861,711	537
1,851,603	112	1,853,152	170	1,854,888	105	1,856,463	301	1,858,158	280	1,850,169	426	1,861,763	427
1,851,627	109	1,853,229	165	1,854,923	154	1,856,558	205	1,858,165	267	1,850,188	427	1,861,766	492
1,851,637	109	1,853,275	105	1,854,926	154	1,856,563	032	1,858,186	205	1,850,189	460	1,861,790	475
1,851,640	63	1,853,323	105	1,854,929	170	1,856,562	310	1,858,203	206	1,850,190	460	1,861,798	433
1,851,684	130	1,853,330	105	1,854,930	170	1,856,566	319	1,858,210	273	1,850,191	460	1,861,826	536
1,851,680	180	1,853,341	170	1,854,948	183	1,856,606	266	1,858,220	330	1,850,192	408	1,861,838	088
1,851,694	110	1,853,353	157	1,854,970	154	1,856,607	310	1,858,230	270	1,850,192	448	1,861,869	474
1,851,699	73	1,853,360	105	1,854,984	131	1,856,615	313	1,858,236	311	1,850,198	427	1,861,870	474
1,851,738	129	1,853,370	106	1,854,988	148	1,856,645	032	1,858,244	311	1,850,199	460	1,861,872	402
1,851,743	181	1,853,393	177	1,855,016	171	1,856,653	316	1,858,272	300	1,850,203	478	1,861,870	408
1,851,745	213	1,853,397	110	1,855,034	214	1,856,657	286	1,858,274	310	1,850,204	434	1,861,878	449
1,851,763	117	1,853,406	188	1,855,035	195	1,856,661	312	1,858,283	264	1,850,205	460	1,861,900	428
1,851,767	110	1,853,409	175	1,855,040	175	1,856,663	273	1,858,286	204	1,850,207	034	1,861,918	492
1,851,789	72	1,853,462	215	1,855,048	168	1,856,671	276	1,858,287	264	1,850,207	460	1,861,933	503
1,851,808	130	1,853,465	140	1,855,105	105	1,856,678	312	1,858,289	311	1,850,208	460	1,861,945	563
1,851,811	128	1,853,522	140	1,855,115	148	1,856,679	034	1,858,317	200	1,850,211	449	1,861,950	427
1,851,817	72	1,853,544	195	1,855,131	175	1,856,680	273	1,858,368	276	1,850,212	478	1,861,956	409
1,851,822	246	1,853,552	138	1,855,170	311	1,856,685	280	1,858,369	276	1,850,213	460	1,861,987	481
1,851,841	105	1,853,565	157	1,855,180	339	1,856,700	250	1,858,378	285	1,850,218	455	1,862,003	537
1,851,849	215	1,853,571	215	1,855,190	324	1,856,701	273	1,858,378	285	1,850,219	434	1,862,018	498
1,851,856	130	1,853,575	195	1,855,191	339	1,856,713	303	1,858,379	345	1,850,224	427	1,862,019	502
1,851,861	111	1,853,590	177	1,855,195	209	1,856,716	310	1,858,386	311	1,850,225	433	1,862,034	498
1,851,873	126	1,853,614	138	1,855,203	295	1,856,731	267	1,858,389	205	1,850,228	420	1,862,050	448
1,851,928	111	1,853,621	180	1,855,210	208	1,856,751	310	1,858,400	280	1,850,229	432	1,862,060	538
1,851,956	220	1,853,628	105	1,855,211	278	1,856,756	271	1,858,415	312	1,850,232	460	1,862,061	480
1,851,951	220	1,853,628	195	1,855,271	270	1,856,763	270	1,858,442	032	1,850,232	432	1,862,061	480
1,851,952	220	1,853,628	207	1,855,280	255	1,856,780	310	1,858,449	276	1,850,233	494	1,862,061	480
1,851,953	220	1,853,654	225	1,855,305	276	1,856,851	268	1,858,474	303	1,850,234	426	1,862,061	480
1,851,954	220	1,853,671	138	1,855,332	264	1,856,860	288	1,858,488	281	1,850,235	427	1,862,061	480
1,851,955	220	1,853,670	105	1,855,336	318	1,856,929	276	1,858,522	264	1,850,236	435	1,862,061	480
1,851,984	112	1,853,688	214	1,855,351	273	1,856,934	250	1,858,523	264	1,850,237	434	1,862,061	480
1,851,987	126	1,853,753	138	1,855,353	260	1,856,938	283	1,858,547	283	1,850,238	434	1,862,061	480
1,851,988	123	1,853,755	138	1,855,355	267	1,856,955	267	1,858,548	310	1,850,239	434	1,862,061	480
1,852,011	103	1,853,771	189	1,855,377	312	1,856,960	274	1,858,574	288	1,850,240	434	1,862,061	480
1,852,014	181	1,853,774	103	1,855,384	277	1,856,970	281	1,858,577	318	1,850,241	434	1,862,061	480
1,852,021	113	1,853,818	189	1,855,387	303	1,857,083	285	1,858,591	204	1,850,242	434	1,862,061	480
1,852,029	208	1,853,821	178	1,855,389	352	1,857,089	285	1,858,635	205	1,850,243	434	1,862,061	480
1,852,054	125	1,853,860	170	1,855,390	260	1,857,100	302	1,858,705	311	1,850,244	434	1,862,061	480
1,852,063	100	1,853,920	214	1,855,412	267	1,857,103	302	1,858,808	281	1,850,245	434	1,862,061	480
1,852,067	107	1,853,921	214	1,855,413	317	1,857,171	293	1,858,820	283	1,850,246	434	1,862,061	480
1,852,107	111	1,853,924	113	1,855,431	264	1,857,201	314	1,858,822	205	1,850,247	434	1,862,061	480
1,852,108	111	1,853,942	177	1,855,455	312	1,857,205	270	1,858,830	270	1,850,248	434	1,862,061	480
1,852,109	111	1,853,973	138	1,855,462	031	1,857,274	310	1,858,843	277	1,850,249	434	1,862,061	480
1,852,110	139	1,853,977	187	1,855,463	031	1,857,288	339	1,858,890	288	1,850,250	434	1,862,061	480
1,852,144	123	1,854,002	177	1,855,464	280	1,857,308	267	1,858,944	312	1,850,251	434	1,862,061	480
1,852,158	103	1,854,002	171	1,855,486	265	1,857,316	276	1,859,015	204	1,850,252	434	1,862,061	480
1,852,162	158	1,854,107	180	1,855,497	273	1,857,318	266	1,859,027	205	1,850,253	434	1,862,061	480
1,852,178	115	1,854,165	115	1,855,548	255	1,857,337	288	1,859,028	205	1,850,254	434	1,862,061	480
1,852,183	147	1,854,176	154	1,855,552	255	1,857,348	289	1,859,036	271	1,850,255	434	1,862,061	480
1,852,194	111	1,854,179	032	1,855,562	273	1,857,357	317	1,859,067	311	1,850,256	434	1,862,061	480
1,852,207	147	1,854,180	149	1,855,591	281	1,857,370	295	1,859,084	303	1,850,257	434	1,862,061	480
1,852,214	112	1,854,186	158	1,855,592	281	1,857,394	280	1,859,087	311	1,850,258	434	1,862,061	480
1,852,215	112	1,854,235	156	1,855,610	288	1,857,402	300	1,859,109	312	1,850,259	434	1,862,061	480
1,852,227	190	1,854,237	138	1,855,615	330	1,857,404	295	1,859,188	303	1,850,260	434	1,862,061	480
1,852,244	115	1,854,252	150	1,855,626	278	1,857,414	306	1,859,193	377	1,850,261	434	1,862,061	480
1,852,245	115	1,854,253	034	1,855,659	255	1,857,420	281	1,					

No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.
1,863,185	433	1,864,754	413	1,866,297	369	1,867,601	429	1,869,153	475	1,870,470	692	1,872,161	597
1,863,221	433	1,864,755	378	1,866,325	624	1,867,672	427	1,869,172	558	1,870,472	777	1,872,169	553
1,863,222	476	1,864,757	370	1,866,329	624	1,867,695	539	1,869,190	449	1,870,477	548	1,872,183	547
1,863,241	652	1,864,760	358	1,866,330	624	1,867,697	537	1,869,208	472	1,870,478	648	1,872,202	547
1,863,253	476	1,864,770	388	1,866,340	368	1,867,737	432	1,869,213	592	1,870,479	548	1,872,233	528
1,863,254	473	1,864,777	395	1,866,351	512	1,867,750	419	1,869,214	503	1,870,485	529	1,872,254	553
1,863,264	478	1,864,778	370	1,866,307	368	1,867,757	423	1,869,235	463	1,870,556	585	1,872,255	553
1,863,266	485	1,864,826	385	1,866,376	591	1,867,804	432	1,869,254	501	1,870,560	556	1,872,280	592
1,863,268	988	1,864,852	503	1,866,399	534	1,867,814	538	1,869,259	592	1,870,567	586	1,872,286	615
1,863,277	490	1,864,858	548	1,866,410	515	1,867,818	633	1,869,271	475	1,870,580	552	1,872,292	624
1,863,318	464	1,864,885	512	1,866,412	625	1,867,823	420	1,869,312	635	1,870,588	604	1,872,304	554
1,863,321	415	1,864,898	360	1,866,414	523	1,867,824	440	1,869,335	475	1,870,594	585	1,872,320	555
1,863,345	449	1,864,908	054	1,866,415	523	1,867,866	647	1,869,340	448	1,870,602	647	1,872,333	015
1,863,355	490	1,864,967	479	1,866,443	371	1,867,908	637	1,869,342	475	1,870,635	586	1,872,354	563
1,863,373	454	1,864,920	369	1,866,503	535	1,867,923	420	1,869,378	511	1,870,636	548	1,872,358	555
1,863,385	475	1,864,935	508	1,866,504	535	1,867,959	434	1,869,379	489	1,870,650	065	1,872,359	554
1,863,419	473	1,864,942	508	1,866,524	674	1,867,995	427	1,869,380	499	1,870,703	553	1,872,363	527
1,863,420	473	1,864,988	385	1,866,532	542	1,867,998	420	1,869,381	499	1,870,727	548	1,872,446	615
1,863,469	502	1,865,001	537	1,866,546	368	1,868,053	420	1,869,382	499	1,870,802	004	1,872,452	588
1,863,507	464	1,865,008	386	1,866,547	368	1,868,055	428	1,869,435	613	1,870,804	547	1,872,463	537
1,863,510	485	1,865,021	385	1,866,564	506	1,868,071	436	1,869,490	556	1,870,810	536	1,872,469	628
1,863,522	449	1,865,024	371	1,866,568	508	1,868,079	596	1,869,486	695	1,870,834	630	1,872,612	546
1,863,528	468	1,865,053	377	1,866,569	572	1,868,085	446	1,869,490	514	1,870,854	629	1,872,519	000
1,863,529	448	1,865,081	370	1,866,590	538	1,868,091	428	1,869,491	514	1,870,883	633	1,872,568	506
1,863,569	473	1,865,089	512	1,866,591	538	1,868,102	420	1,869,518	506	1,870,884	596	1,872,611	634
1,863,636	528	1,865,104	673	1,866,604	397	1,868,145	559	1,869,521	506	1,870,880	559	1,872,612	600
1,863,653	478	1,865,146	508	1,866,657	385	1,868,151	427	1,869,526	519	1,870,881	622	1,872,614	592
1,863,690	478	1,865,152	612	1,866,659	369	1,868,192	427	1,869,532	712	1,870,886	650	1,872,617	616
1,863,700	404	1,865,161	534	1,866,666	377	1,868,195	432	1,869,554	592	1,870,901	527	1,872,638	624
1,863,705	386	1,865,162	534	1,866,668	304	1,868,266	636	1,869,557	559	1,870,944	620	1,872,679	538
1,863,711	395	1,865,164	1085	1,866,686	542	1,868,283	553	1,869,585	499	1,870,951	554	1,872,700	855
1,863,731	383	1,865,180	511	1,866,688	369	1,868,285	590	1,869,589	495	1,870,953	653	1,872,743	605
1,863,780	369	1,865,183	360	1,866,698	570	1,868,286	596	1,869,591	405	1,870,972	596	1,872,755	605
1,863,791	394	1,865,192	508	1,866,699	555	1,868,288	419	1,869,598	499	1,871,022	590	1,872,808	613
1,863,801	383	1,865,195	536	1,866,719	580	1,868,295	554	1,869,621	499	1,871,027	808	1,872,821	688
1,863,808	385	1,865,200	548	1,866,729	543	1,868,295	554	1,869,624	546	1,871,038	558	1,872,829	536
1,863,834	479	1,865,206	536	1,866,732	543	1,868,333	537	1,869,624	559	1,871,050	507	1,872,839	615
1,863,843	306	1,865,206	395	1,866,744	308	1,868,338	445	1,869,636	559	1,871,056	647	1,872,876	549
1,863,847	503	1,865,208	370	1,866,768	370	1,868,364	047	1,869,638	550	1,871,083	534	1,872,879	530
1,863,869	474	1,865,213	396	1,866,769	370	1,868,368	573	1,869,657	558	1,871,104	534	1,872,883	534
1,863,943	388	1,865,215	545	1,866,775	368	1,868,394	419	1,869,657	558	1,871,122	529	1,872,884	535
1,863,945	385	1,865,224	396	1,866,800	1048	1,868,406	508	1,869,658	550	1,871,135	576	1,872,891	540
1,863,967	537	1,865,228	547	1,866,806	552	1,868,422	904	1,869,661	536	1,871,136	570	1,872,900	633
1,863,990	468	1,865,235	537	1,866,839	1647	1,868,447	936	1,869,697	469	1,871,171	555	1,872,923	698
1,864,009	371	1,865,265	515	1,866,879	305	1,868,448	536	1,869,703	495	1,871,187	556	1,872,923	588
1,864,013	396	1,865,282	346	1,866,924	324	1,868,451	428	1,869,705	508	1,871,195	567	1,872,929	588
1,864,014	306	1,865,282	573	1,866,925	394	1,868,453	433	1,869,761	548	1,871,207	529	1,872,941	573
1,864,024	304	1,865,285	025	1,866,940	366	1,868,455	433	1,869,762	540	1,871,220	555	1,872,956	528
1,864,033	404	1,865,285	431	1,866,942	557	1,868,456	433	1,869,770	499	1,871,246	585	1,872,958	529
1,864,087	464	1,865,287	397	1,866,964	542	1,868,457	433	1,869,781	499	1,871,305	653	1,872,962	628
1,864,088	465	1,865,287	537	1,866,965	585	1,868,462	419	1,869,784	511	1,871,315	554	1,872,968	528
1,864,073	404	1,865,288	537	1,866,971	542	1,868,466	420	1,869,799	490	1,871,316	553	1,872,983	538
1,864,076	474	1,865,294	530	1,866,974	1047	1,868,478	420	1,869,800	499	1,871,329	659	1,872,990	594
1,864,079	540	1,865,296	507	1,866,975	552	1,868,478	539	1,869,830	633	1,871,344	655	1,872,996	020
1,864,083	304	1,865,294	369	1,866,982	668	1,868,499	404	1,869,844	511	1,871,352	555	1,873,013	549
1,864,084	307	1,865,297	385	1,866,985	545	1,868,513	622	1,869,870	547	1,871,363	555	1,873,014	549
1,864,091	402	1,865,314	369	1,866,987	977	1,868,547	904	1,869,881	098	1,871,411	547	1,873,058	021
1,864,107	474	1,865,315	308	1,866,988	304	1,868,555	547	1,869,886	593	1,871,428	547	1,873,061	064
1,864,222	473	1,865,329	390	1,866,989	370	1,868,560	585	1,869,906	500	1,871,435	547	1,873,064	009
1,864,240	473	1,865,340	503	1,866,990	370	1,868,566	585	1,869,948	580	1,871,450	554	1,873,071	628
1,864,244	503	1,865,341	534	1,866,992	388	1,868,570	585	1,869,962	567	1,871,530	546	1,873,105	596
1,864,250	371	1,865,343	521	1,866,994	543	1,868,581	465	1,869,966	593	1,871,550	586	1,873,115	553
1,864,349	370	1,865,347	504	1,866,995	570	1,868,589	473	1,870,030	520	1,871,596	635	1,873,136	535
1,864,354	369	1,865,352	592	1,866,997	357	1,868,625	449	1,870,034	567	1,871,657	553	1,873,137	530
1,864,373	501	1,865,352	558	1,866,998	380	1,868,660	471	1,870,083	499	1,871,681	615	1,873,165	535
1,864,426	544	1,865,352	388	1,866,999	386	1,868,666	592	1,870,074	490	1,871,682	615	1,873,185	528
1,864,427	544	1,865,353	386	1,866,999	549	1,868,732	454	1,870,070	512	1,871,683	665	1,873,210	588
1,864,428	544	1,865,354	385	1,866,999	586	1,868,733	455	1,870,081	511	1,871,694	615	1,873,251	546
1,864,448	368	1,865,367	035	1,866,999	514	1,868,735	455	1,870,082	614	1,871,723	547	1,873,262	549
1,864,490	474	1,865,368	502	1,866,999	586	1,868,735	455	1,870,094	508	1,871,737	628	1,873,266	649
1,864,504	478	1,865,370	507	1,866,999	368	1,868,736	455	1,870,126	511	1,871,770	554	1,873,320	576
1,864,511	371	1,865,373	515	1,866,999	377	1,868,737	455	1,870,131	567	1,871,781	547	1,873,349	591
1,864,541	954	1,865,375	386	1,866,999	1084	1,868,738	455	1,870,166	556	1,871,792	625	1,873,348	589
1,864,542	360	1,865,382	385	1,866,999	395	1,868,755	450	1,870,242	548	1,871,793	625	1,873,438	576
1,864,544	1046	1,865,383	385	1,866,999	305	1,868,755	585	1,870,250	065	1,871,815	555	1,873,474	594
1,864,567	394	1,865,387	371	1,866,999	553	1,868,756	465	1,870,260	604	1,871,819	556	1,873,520	578
1,864,582	1054	1,865,387	512	1,866,999	388	1,868							

No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.
1,873,862	620	1,875,503	636	1,877,504	609	1,879,064	635	1,880,503	625	1,881,069	731	1,883,057	731
1,873,863	620	1,875,589	684	1,877,531	625	1,879,107	657	1,880,512	739	1,882,000	694	1,883,059	699
1,873,876	575	1,875,591	670	1,877,569	630	1,879,118	601	1,880,513	720	1,882,002	696	1,883,076	700
1,873,900	660	1,875,596	682	1,877,580	607	1,879,128	685	1,880,514	720	1,882,013	675	1,883,077	700
1,873,901	660	1,875,592	678	1,877,587	651	1,879,155	671	1,880,515	699	1,882,023	731	1,883,083	708
1,873,910	600	1,875,638	649	1,877,614	615	1,879,158	674	1,880,534	606	1,882,035	678	1,883,118	728
1,873,913	597	1,875,689	649	1,877,663	616	1,879,162	683	1,880,538	669	1,882,045	689	1,883,122	688
1,873,924	620	1,875,731	664	1,877,714	627	1,879,189	669	1,880,544	728	1,882,052	706	1,883,199	694
1,873,942	732	1,875,743	608	1,877,717	640	1,879,272	674	1,880,545	714	1,882,072	676	1,883,840	716
1,873,995	575	1,875,755	625	1,877,733	625	1,879,300	674	1,880,558	720	1,882,073	689	1,883,877	723
1,873,998	579	1,875,795	739	1,877,762	607	1,879,361	674	1,880,559	699	1,882,081	717	1,883,878	723
1,873,999	579	1,875,802	620	1,877,811	614	1,879,373	674	1,880,560	699	1,882,082	707	1,883,898	716
1,874,064	589	1,875,817	608	1,877,861	647	1,879,431	674	1,880,567	715	1,882,114	713	1,883,908	698
1,874,080	593	1,875,816	628	1,877,861	608	1,879,435	681	1,880,567	708	1,882,115	712	1,883,913	733
1,874,103	591	1,875,823	740	1,877,867	634	1,879,445	669	1,880,568	714	1,882,140	695	1,883,914	733
1,874,124	594	1,875,879	625	1,877,875	647	1,879,479	656	1,880,581	693	1,882,160	733	1,883,932	710
1,874,127	584	1,875,897	707	1,877,921	616	1,879,483	665	1,880,584	721	1,882,161	706	1,883,947	740
1,874,144	632	1,875,903	678	1,877,939	654	1,879,494	656	1,880,587	699	1,882,194	700	1,883,952	734
1,874,150	570	1,875,932	685	1,877,959	629	1,879,492	674	1,880,578	703	1,882,208	702	1,883,980	768
1,874,170	585	1,875,943	678	1,877,980	629	1,879,589	674	1,880,701	704	1,882,212	700	1,884,015	781
1,874,186	579	1,875,944	683	1,877,982	632	1,879,601	732	1,880,720	689	1,882,260	696	1,884,017	692
1,874,225	624	1,875,982	632	1,877,987	616	1,879,638	674	1,880,741	703	1,882,279	676	1,884,035	733
1,874,253	592	1,876,025	609	1,878,007	609	1,879,639	674	1,880,759	697	1,882,298	670	1,884,038	700
1,874,258	576	1,876,124	680	1,878,009	609	1,879,676	670	1,880,768	711	1,882,311	714	1,884,048	711
1,874,260	590	1,876,166	635	1,878,022	615	1,879,687	683	1,880,805	715	1,882,316	717	1,884,075	700
1,874,310	639	1,876,175	634	1,878,052	609	1,879,734	684	1,880,806	711	1,882,321	689	1,884,082	716
1,874,329	576	1,876,179	608	1,878,065	634	1,879,740	674	1,880,808	699	1,882,327	711	1,884,084	693
1,874,339	668	1,876,214	632	1,878,066	632	1,879,762	685	1,880,811	675	1,882,344	706	1,884,085	693
1,874,350	621	1,876,221	629	1,878,112	675	1,879,777	681	1,880,816	1000	1,882,365	733	1,884,086	693
1,874,361	591	1,876,222	616	1,878,127	651	1,879,834	626	1,880,898	743	1,882,389	688	1,884,087	693
1,874,370	602	1,876,260	631	1,878,144	808	1,879,847	601	1,880,899	743	1,882,390	688	1,884,088	711
1,874,373	625	1,876,262	633	1,878,145	808	1,879,849	852	1,880,917	717	1,882,391	699	1,884,091	698
1,874,397	576	1,876,290	671	1,878,154	592	1,879,871	674	1,880,937	713	1,882,421	687	1,884,110	716
1,874,398	638	1,876,357	609	1,878,164	625	1,879,874	661	1,880,941	689	1,882,444	605	1,884,164	756
1,874,417	638	1,876,401	603	1,878,174	681	1,879,883	658	1,880,965	743	1,882,470	731	1,884,166	716
1,874,516	589	1,876,411	632	1,878,182	651	1,879,953	675	1,880,968	677	1,882,525	715	1,884,200	704
1,874,520	578	1,876,410	608	1,878,203	651	1,879,983	852	1,880,971	743	1,882,528	714	1,884,206	712
1,874,549	576	1,876,461	888	1,878,206	671	1,880,005	657	1,880,972	743	1,882,568	689	1,884,209	688
1,874,564	592	1,876,522	887	1,878,220	715	1,880,006	657	1,880,975	677	1,882,571	711	1,884,210	688
1,874,638	629	1,876,533	609	1,878,227	693	1,880,010	660	1,880,977	732	1,882,571	714	1,884,220	694
1,874,639	642	1,876,551	626	1,878,228	621	1,880,012	673	1,880,978	685	1,882,618	734	1,884,240	722
1,874,641	593	1,876,563	738	1,878,235	630	1,880,017	657	1,880,987	696	1,882,701	711	1,884,255	720
1,874,665	575	1,876,564	739	1,878,237	636	1,880,018	657	1,881,041	689	1,882,702	689	1,884,298	716
1,874,692	624	1,876,617	713	1,878,244	675	1,880,036	677	1,881,044	694	1,882,712	703	1,884,313	703
1,874,735	625	1,876,629	620	1,878,244	614	1,880,038	671	1,881,064	712	1,882,721	718	1,884,318	720
1,874,743	575	1,876,630	629	1,878,276	658	1,880,040	625	1,881,074	807	1,882,734	672	1,884,331	744
1,874,759	578	1,876,702	615	1,878,287	667	1,880,041	694	1,881,084	693	1,882,735	672	1,884,337	720
1,874,785	639	1,876,724	633	1,878,300	621	1,880,042	825	1,881,085	693	1,882,749	713	1,884,338	698
1,874,801	615	1,876,725	633	1,878,307	673	1,880,043	801	1,881,104	706	1,882,762	822	1,884,339	693
1,874,814	591	1,876,726	685	1,878,316	640	1,880,044	861	1,881,115	704	1,882,777	745	1,884,346	706
1,874,827	588	1,876,732	632	1,878,426	669	1,880,045	826	1,881,116	704	1,882,788	745	1,884,348	751
1,874,830	578	1,876,733	631	1,878,458	636	1,880,046	825	1,881,119	715	1,882,804	719	1,884,367	700
1,874,833	575	1,876,734	638	1,878,468	632	1,880,047	825	1,881,128	685	1,882,810	707	1,884,379	692
1,874,835	624	1,876,738	632	1,878,477	639	1,880,048	861	1,881,142	722	1,882,834	775	1,884,407	837
1,874,849	576	1,876,754	604	1,878,507	626	1,880,049	825	1,881,200	689	1,882,853	733	1,884,423	688
1,874,905	642	1,876,755	604	1,878,510	625	1,880,050	665	1,881,217	695	1,882,861	688	1,884,433	720
1,874,940	615	1,876,789	614	1,878,525	654	1,880,051	664	1,881,227	683	1,882,882	711	1,884,471	708
1,874,947	615	1,876,800	608	1,878,527	640	1,880,052	663	1,881,257	713	1,882,887	695	1,884,480	700
1,874,950	580	1,876,801	613	1,878,530	618	1,880,054	603	1,881,283	707	1,882,910	693	1,884,495	695
1,874,972	580	1,876,820	638	1,878,532	638	1,880,055	663	1,881,286	687	1,882,917	713	1,884,509	704
1,874,989	625	1,876,830	638	1,878,539	674	1,880,058	681	1,881,307	733	1,882,920	734	1,884,510	711
1,875,001	615	1,876,840	634	1,878,540	674	1,880,157	685	1,881,317	639	1,882,935	696	1,884,512	715
1,875,005	639	1,876,853	908	1,878,559	621	1,880,157	670	1,881,320	712	1,882,940	716	1,884,522	748
1,875,018	621	1,876,860	640	1,878,580	656	1,880,168	852	1,881,325	693	1,882,952	706	1,884,523	698
1,875,045	622	1,876,867	642	1,878,581	650	1,880,200	713	1,881,336	717	1,882,968	713	1,884,532	688
1,875,054	621	1,876,869	628	1,878,591	674	1,880,211	853	1,881,366	852	1,883,023	706	1,884,533	713
1,875,070	712	1,876,910	609	1,878,607	657	1,880,225	1001	1,881,418	700	1,883,042	724	1,884,542	760
1,875,079	703	1,876,911	609	1,878,609	660	1,880,235	1001	1,881,419	700	1,883,044	733	1,884,544	688
1,875,088	853	1,876,943	634	1,878,610	638	1,880,235	733	1,881,435	698	1,883,045	733	1,884,546	820
1,875,105	703	1,876,951	613	1,878,621	683	1,880,263	716	1,881,436	694	1,883,116	717	1,884,553	800
1,875,187	590	1,876,961	630	1,878,625	660	1,880,265	703	1,881,444	717	1,883,168	717	1,884,555	688
1,875,199	580	1,877,010	624	1,878,650	680	1,880,266	700	1,881,445	717	1,883,188	840	1,884,559	695
1,875,223	578	1,877,030	603	1,878,651	823	1,880,300	907	1,881,446	717	1,883,193	743	1,884,561	720
1,875,273	606	1,877,060	614	1,878,668	657	1,880,306	687	1,881,471	708	1,883,215	698	1,884,563	743
1,875,281	727	1,877,062	636	1,878,672	621	1,880,307	692	1,881,487	704	1,883,261	748	1,884,600	693
1,875,292	733	1,877,067	603	1,878,676	624	1,880,310	693	1,881,510	716	1,883,262	748	1,884,613	689
1,875,294	621	1,877,119	670	1,878,678	692	1,880,315</							

No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.
1,884,778	720	1,886,218	814	1,887,775	769	1,889,080	828	1,890,204	004	1,891,540	874	1,892,923	825
1,884,774	720	1,886,232	707	1,887,702	774	1,889,088	802	1,890,214	835	1,891,592	853	1,892,939	912
1,881,790	751	1,886,242	719	1,887,708	709	1,889,090	1047	1,890,220	821	1,891,606	851	1,892,950	924
1,884,798	887	1,886,240	705	1,887,807	708	1,889,105	795	1,890,230	821	1,891,607	848	1,892,951	897
1,884,811	746	1,886,251	794	1,887,809	828	1,889,123	891	1,890,231	801	1,891,610	740	1,892,972	942
1,884,885	723	1,886,252	795	1,887,833	721	1,889,124	733	1,890,241	840	1,891,645	875	1,892,980	928
1,884,889	723	1,886,256	709	1,887,841	794	1,889,130	721	1,890,242	835	1,891,673	846	1,893,004	924
1,884,890	730	1,886,260	821	1,887,863	801	1,889,154	1054	1,890,246	1018	1,891,703	874	1,893,005	897
1,884,899	005	1,886,261	821	1,887,879	838	1,889,160	833	1,890,250	1048	1,891,715	798	1,893,021	003
1,884,901	857	1,886,267	734	1,887,899	801	1,889,161	770	1,890,265	817	1,891,730	820	1,893,023	923
1,884,910	094	1,886,260	706	1,887,905	801	1,889,162	770	1,890,284	821	1,891,732	830	1,893,047	914
1,884,953	711	1,886,280	700	1,887,919	814	1,889,168	775	1,890,297	829	1,891,743	801	1,893,048	838
1,884,954	735	1,886,283	775	1,887,920	785	1,889,225	769	1,890,340	820	1,891,750	983	1,893,051	044
1,884,960	701	1,886,293	723	1,887,930	891	1,889,254	769	1,890,359	834	1,891,770	873	1,893,078	925
1,884,989	890	1,886,344	775	1,887,934	802	1,889,277	723	1,890,427	1048	1,891,878	879	1,893,085	920
1,884,993	714	1,886,353	721	1,887,955	801	1,889,321	723	1,890,430	1047	1,891,887	890	1,893,100	920
1,885,003	729	1,886,380	820	1,887,972	758	1,889,347	1047	1,890,431	815	1,891,888	866	1,893,117	917
1,885,012	702	1,886,394	775	1,887,978	828	1,889,348	1047	1,890,453	828	1,891,899	873	1,893,135	890
1,885,019	781	1,886,412	745	1,888,003	834	1,889,365	851	1,890,462	750	1,891,890	851	1,893,138	903
1,885,024	720	1,886,436	708	1,888,012	820	1,889,377	821	1,890,463	834	1,891,891	857	1,893,152	702
1,885,025	720	1,886,469	793	1,888,022	716	1,889,379	700	1,890,470	835	1,891,892	848	1,893,155	798
1,885,026	720	1,886,491	707	1,888,023	854	1,889,383	1085	1,890,474	827	1,891,978	874	1,893,172	826
1,885,027	720	1,886,504	743	1,888,025	721	1,889,385	708	1,890,475	845	1,891,979	867	1,893,221	835
1,885,035	702	1,886,538	909	1,888,014	853	1,889,388	820	1,890,485	834	1,891,981	847	1,893,288	757
1,885,066	729	1,886,548	770	1,888,050	820	1,889,405	721	1,890,491	824	1,891,987	853	1,893,284	757
1,885,100	800	1,886,556	733	1,888,056	708	1,889,415	706	1,890,497	817	1,892,038	852	1,893,280	834
1,885,113	700	1,886,590	785	1,888,131	709	1,889,417	706	1,890,508	892	1,892,051	874	1,893,296	014
1,885,117	708	1,886,590	718	1,888,132	834	1,889,420	833	1,890,516	740	1,892,057	848	1,893,313	917
1,885,148	710	1,886,587	909	1,888,164	833	1,889,420	774	1,890,545	810	1,892,063	874	1,893,340	897
1,885,154	722	1,886,600	721	1,888,173	513	1,889,430	768	1,890,585	797	1,892,099	874	1,893,360	897
1,885,166	796	1,886,612	005	1,888,188	794	1,889,437	789	1,890,603	745	1,892,101	823	1,893,398	025
1,885,185	782	1,886,632	773	1,888,180	794	1,889,442	745	1,890,606	851	1,892,105	880	1,893,417	902
1,885,187	709	1,886,633	773	1,888,202	704	1,889,473	781	1,890,632	842	1,892,112	873	1,893,437	935
1,885,190	775	1,886,647	005	1,888,229	770	1,889,474	775	1,890,633	835	1,892,123	880	1,893,477	801
1,885,234	788	1,886,680	816	1,888,235	774	1,889,479	833	1,890,637	833	1,892,138	847	1,893,490	002
1,885,251	768	1,886,716	708	1,888,236	774	1,889,489	794	1,890,645	834	1,892,155	806	1,893,492	897
1,885,255	786	1,886,750	725	1,888,270	770	1,889,491	1049	1,890,650	829	1,892,167	757	1,893,490	924
1,885,261	700	1,886,759	722	1,888,295	775	1,889,510	787	1,890,654	855	1,892,180	806	1,893,595	897
1,885,272	787	1,886,775	722	1,888,290	833	1,889,511	787	1,890,661	820	1,892,191	860	1,893,617	924
1,885,281	718	1,886,825	873	1,888,382	820	1,889,530	785	1,890,662	815	1,892,205	853	1,893,622	917
1,885,282	789	1,886,857	745	1,888,391	702	1,889,549	708	1,890,668	764	1,892,210	848	1,893,655	850
1,885,287	700	1,886,873	711	1,888,400	826	1,889,580	708	1,890,712	816	1,892,238	811	1,893,659	800
1,885,352	700	1,886,875	983	1,888,415	890	1,889,598	795	1,890,717	827	1,892,271	373	1,893,697	906
1,885,380	833	1,886,908	708	1,888,419	830	1,889,604	833	1,890,756	815	1,892,273	874	1,893,698	845
1,885,381	833	1,886,927	770	1,888,421	705	1,889,617	790	1,890,769	755	1,892,283	852	1,893,611	755
1,885,393	776	1,886,931	811	1,888,441	795	1,889,642	826	1,890,773	752	1,892,293	848	1,893,623	942
1,885,401	890	1,886,933	789	1,888,457	834	1,889,644	826	1,890,774	983	1,892,294	848	1,893,622	800
1,885,411	811	1,886,937	763	1,888,458	833	1,889,644	712	1,890,789	799	1,892,306	846	1,893,677	825
1,885,412	703	1,886,938	703	1,888,464	790	1,889,654	1084	1,890,798	820	1,892,312	873	1,893,683	924
1,885,418	768	1,886,941	884	1,888,465	820	1,889,654	805	1,890,805	833	1,892,316	873	1,893,684	917
1,885,429	714	1,886,948	820	1,888,472	811	1,889,655	813	1,890,840	739	1,892,331	805	1,893,690	834
1,885,447	785	1,886,949	820	1,888,484	823	1,889,665	795	1,890,851	803	1,892,341	805	1,893,706	758
1,885,505	708	1,886,957	709	1,888,491	834	1,889,672	785	1,890,874	827	1,892,384	874	1,893,740	914
1,885,509	723	1,886,960	814	1,888,496	787	1,889,697	775	1,890,875	828	1,892,398	750	1,893,744	913
1,885,524	005	1,886,967	775	1,888,547	093	1,889,702	722	1,890,881	852	1,892,399	760	1,893,744	897
1,885,556	723	1,886,970	834	1,888,560	719	1,889,710	828	1,890,897	829	1,892,400	756	1,893,774	903
1,885,561	099	1,886,990	770	1,888,567	794	1,889,712	805	1,890,903	757	1,892,409	830	1,893,782	924
1,885,564	723	1,886,990	790	1,888,581	721	1,889,714	788	1,890,916	801	1,892,425	756	1,893,783	913
1,885,583	708	1,886,991	775	1,888,595	799	1,889,717	758	1,890,917	801	1,892,449	890	1,893,798	924
1,885,610	765	1,886,993	891	1,888,601	798	1,889,737	833	1,890,924	801	1,892,457	890	1,893,799	898
1,885,667	703	1,886,997	721	1,888,603	770	1,889,777	816	1,890,926	835	1,892,462	867	1,893,810	928
1,885,700	705	1,887,120	810	1,888,608	770	1,889,779	842	1,890,934	828	1,892,469	851	1,893,810	762
1,885,701	705	1,887,129	760	1,888,633	785	1,889,835	821	1,890,948	811	1,892,471	890	1,893,821	924
1,885,702	795	1,887,156	728	1,888,636	760	1,889,836	821	1,890,960	840	1,892,472	826	1,893,835	898
1,885,731	780	1,887,157	721	1,888,672	802	1,889,851	823	1,890,969	894	1,892,486	758	1,893,840	801
1,885,735	810	1,887,171	732	1,888,677	716	1,889,880	820	1,891,004	884	1,892,528	875	1,893,847	897
1,885,764	000	1,887,175	764	1,888,713	788	1,889,905	834	1,891,005	834	1,892,534	852	1,893,848	897
1,885,780	789	1,887,182	820	1,888,713	786	1,889,907	835	1,891,027	820	1,892,538	783	1,893,868	801
1,885,811	788	1,887,204	783	1,888,743	816	1,889,923	750	1,891,049	816	1,892,548	783	1,893,869	801
1,885,822	700	1,887,227	1000	1,888,759	833	1,889,929	805	1,891,050	835	1,892,550	851	1,893,870	822
1,885,833	702	1,887,228	999	1,888,762	796	1,889,931	827	1,891,058	847	1,892,550	851	1,893,873	755
1,885,830	819	1,887,232	1000	1,888,771	802	1,889,943	964	1,891,079	755	1,892,560	873	1,893,874	756
1,885,845	788	1,887,241	825	1,888,785	838	1,889,944	850	1,891,081	840	1,892,570	870	1,893,874	756
1,885,870	701	1,887,246	718	1,888,785	838	1,889,949	064	1,891,091	840	1,892,576	870	1,893,879	925
1,885,878	099	1,887,256	890	1,888,820	819	1,889,950	800	1,891,097	752	1,892,580	848	1,893,911	890
1,885,884	728	1,887,264	713	1,888,827	993	1,889,956	904	1,891,107	752	1,892,584	848	1,893,911	890
1,885,887	701	1,887,260	814	1,888,840	721								

No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.	No. of Patent.	Page. B.
1,804,154	824	1,805,002	002	1,806,535	031	1,808,075	055	1,809,725	1005	1,801,275	1001	1,803,215	992		
1,804,158	811	1,805,063	002	1,806,544	031	1,808,088	1010	1,809,774	1005	1,801,321	1038	1,803,283	1034		
1,804,168	755	1,805,080	003	1,806,552	051	1,808,098	1019	1,809,808	095	1,801,322	1000	1,803,407	996		
1,804,172	898	1,805,088	030	1,806,583	002	1,808,105	052	1,809,800	095	1,801,373	1021	1,803,500	1023		
1,804,184	018	1,805,223	003	1,806,588	006	1,808,168	062	1,809,810	096	1,801,378	1006	1,803,501	097		
1,804,207	027	1,805,238	004	1,806,610	039	1,808,169	1038	1,809,811	096	1,801,383	098	1,803,503	1006		
1,804,230	802	1,805,261	024	1,806,642	090	1,808,213	054	1,809,817	087	1,801,434	1038	1,803,504	1038		
1,804,231	802	1,805,263	011	1,806,655	897	1,808,258	056	1,809,887	095	1,801,441	1038	1,803,525	1007		
1,804,247	765	1,805,268	012	1,806,659	030	1,808,268	1020	1,809,888	096	1,801,474	1044	1,803,573	992		
1,804,250	829	1,805,298	1653	1,806,660	030	1,808,301	054	1,809,896	1008	1,801,551	970	1,803,578	1023		
1,804,252	828	1,805,351	011	1,806,662	028	1,808,326	060	1,809,916	092	1,801,563	083	1,803,598	1021		
1,804,266	007	1,805,413	002	1,806,725	011	1,808,329	1031	1,809,910	056	1,801,565	1000	1,803,642	998		
1,804,277	012	1,805,414	005	1,806,735	028	1,808,352	1010	1,809,957	1000	1,801,582	1070	1,803,645	1036		
1,804,283	007	1,805,424	038	1,806,769	050	1,808,363	075	1,809,991	1021	1,801,590	1004	1,803,656	1008		
1,804,323	003	1,805,433	032	1,806,811	030	1,808,507	081	1,809,972	1038	1,801,615	1004	1,803,686	1006		
1,804,331	003	1,805,440	032	1,807,015	018	1,808,554	1010	1,809,975	1006	1,801,626	1021	1,803,783	1036		
1,804,352	904	1,805,447	032	1,807,010	018	1,808,554	083	1,809,985	1006	1,801,630	1021	1,803,800	1021		
1,804,374	028	1,805,515	005	1,807,030	1034	1,808,612	1003	1,809,986	1000	1,801,706	1003	1,803,823	1003		
1,804,377	038	1,805,516	005	1,807,110	056	1,808,613	1003	1,809,987	1000	1,801,728	1020	1,803,834	1044		
1,804,438	950	1,805,517	005	1,807,110	1038	1,808,673	083	1,809,989	1004	1,801,748	950	1,803,856	998		
1,804,460	965	1,805,522	004	1,807,124	080	1,808,682	1000	1,809,991	1000	1,801,872	1044	1,803,929	962		
1,804,501	960	1,805,527	004	1,807,145	1005	1,808,687	955	1,809,994	1033	1,801,914	998	1,804,003	981		
1,804,566	1052	1,805,528	965	1,807,157	1005	1,808,688	984	1,809,994	1010	1,801,930	1007	1,804,013	998		
1,804,567	1052	1,805,529	965	1,807,157	955	1,808,737	955	1,809,132	1064	1,802,005	1070	1,804,047	1000		
1,804,577	060	1,805,786	008	1,807,188	966	1,808,877	1003	1,809,276	998	1,802,073	1021	1,804,133	952		
1,804,580	929	1,805,799	005	1,807,189	1022	1,808,885	1031	1,809,295	1034	1,802,106	1003	1,804,148	1003		
1,804,587	035	1,805,910	030	1,807,210	056	1,808,930	051	1,809,417	1001	1,802,115	1070	1,804,160	996		
1,804,601	944	1,805,945	000	1,807,220	056	1,808,942	1004	1,809,442	999	1,802,221	998	1,804,191	1043		
1,804,620	060	1,805,977	003	1,807,232	1034	1,809,053	1027	1,809,444	1034	1,802,394	1023	1,804,170	1004		
1,804,623	045	1,805,979	012	1,807,241	1934	1,809,054	1020	1,809,506	1010	1,802,395	1044	1,804,172	996		
1,804,626	028	1,806,038	012	1,807,252	978	1,809,058	979	1,809,507	1009	1,802,396	800	1,804,173	952		
1,804,628	018	1,806,045	025	1,807,260	1937	1,809,078	1051	1,809,509	985	1,802,405	800	1,804,191	1043		
1,804,630	002	1,806,045	930	1,807,379	978	1,809,086	1006	1,809,517	1008	1,802,445	1021	1,804,200	998		
1,804,641	903	1,806,055	011	1,807,409	981	1,809,106	1004	1,809,638	1022	1,802,445	1016	1,804,243	1020		
1,804,662	004	1,806,090	020	1,807,474	052	1,809,120	985	1,809,649	998	1,802,461	1020	1,804,244	1020		
1,804,666	903	1,806,143	898	1,807,574	952	1,809,190	985	1,809,655	996	1,802,461	1000	1,804,240	1038		
1,804,671	024	1,806,145	020	1,807,575	952	1,809,190	985	1,809,660	1006	1,802,526	1005	1,804,261	1005		
1,804,677	938	1,806,147	008	1,807,620	1006	1,809,184	1029	1,809,663	1020	1,802,526	1005	1,804,269	1044		
1,804,696	1040	1,806,157	004	1,807,651	1054	1,809,213	1019	1,809,680	998	1,802,539	1000	1,804,341	1019		
1,804,731	900	1,806,150	004	1,807,680	1010	1,809,214	1019	1,809,693	1017	1,802,559	999	1,804,367	1001		
1,804,744	1040	1,806,160	004	1,807,704	1006	1,809,225	1019	1,809,829	1009	1,802,746	1044	1,804,377	1005		
1,804,749	914	1,806,161	904	1,807,701	975	1,809,223	1004	1,809,869	1037	1,802,747	1044	1,804,402	996		
1,804,750	910	1,806,182	004	1,807,773	080	1,809,243	979	1,809,870	1037	1,802,753	1044	1,804,406	999		
1,804,758	060	1,806,185	027	1,807,812	955	1,809,257	957	1,809,871	1004	1,802,777	1007	1,804,414	1004		
1,804,766	051	1,806,215	011	1,807,818	072	1,809,314	1045	1,809,872	1004	1,802,778	1007	1,804,417	1020		
1,804,787	983	1,806,220	900	1,807,810	954	1,809,387	1019	1,809,873	1004	1,802,786	1030	1,804,445	1020		
1,804,788	049	1,806,226	002	1,807,844	988	1,809,388	1021	1,809,877	1037	1,802,797	1044	1,804,452	996		
1,804,789	002	1,806,227	925	1,807,840	1036	1,809,389	1021	1,809,944	1070	1,802,803	1020	1,804,464	1021		
1,804,795	000	1,806,228	002	1,807,860	1054	1,809,420	1051	1,809,951	1070	1,802,832	1034	1,804,469	1044		
1,804,810	908	1,806,240	005	1,807,899	1004	1,809,452	978	1,809,967	1066	1,802,833	1053	1,804,495	998		
1,804,819	072	1,806,263	030	1,807,876	1020	1,809,507	067	1,809,974	1034	1,802,871	1023	1,804,546	1060		
1,804,820	072	1,806,276	029	1,807,877	950	1,809,512	085	1,809,997	990	1,802,904	1000	1,804,589	985		
1,804,825	071	1,806,282	002	1,807,878	1037	1,809,513	1051	1,809,998	1007	1,802,950	987	1,804,677	999		
1,804,830	035	1,806,312	028	1,807,900	1053	1,809,526	1019	1,809,999	999	1,803,014	987	1,804,791	1066		
1,804,837	060	1,806,342	003	1,807,977	978	1,809,642	1020	1,809,120	1019	1,803,021	1001	1,804,810	1003		
1,804,931	028	1,806,344	912	1,807,978	978	1,809,654	979	1,809,130	1019	1,803,030	999	1,804,830	996		
1,804,934	020	1,806,400	038	1,807,979	952	1,809,696	1034	1,809,145	1020	1,803,036	1044	1,804,834	1023		
1,804,959	1052	1,806,504	908	1,808,002	1036	1,809,710	954	1,809,122	990	1,803,094	990				
1,804,960	042	1,806,520	938	1,808,047	1031	1,809,837	1004	1,809,128	1044	1,803,126	1066				
1,804,975	920	1,806,521	938	1,808,054	978	1,809,707	1068	1,809,124	990	1,803,172	1033				